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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Cheo *et al.*

Appl. No. 09/732,914

Filed: December 11, 2000

For: **Use of Multiple Recombination
Sites with Unique Specificity in
Recombinational Cloning**

Confirmation No. 2341

Art Unit: 1645

Examiner: To be assigned

Atty. Docket: 0942.5010002/RWE/BJD

Letter to PTO Draftsman: Submission of Formal Drawings

Commissioner for Patents
Washington, D.C. 20231

Sir:

In reply to the "Notice to File Missing Parts of Application--Filing Date Granted," dated March 6, 2001, submitted herewith are 34 sheets of formal drawings with Figures 1-13, 14A, 14B, 15, 16, 17A, 17B, 18, 19, 20A-F, 21A-C, 22A, 22B, 23, 24A, 24B, 24C, 25A-B, 26A, 26B, 27A, and 27B, corresponding to the informal drawings submitted with the above-captioned application. Identification of the drawings is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these formal drawings into this application is respectfully requested.

It is not believed that an extension of time is required, other than any already provided herewith. However, if an extension of time is needed to prevent abandonment of the application, then such extension of time is hereby petitioned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this Letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono

Attorney for Applicants

Registration No. 42,473

Date: May 4, 2001

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COPY

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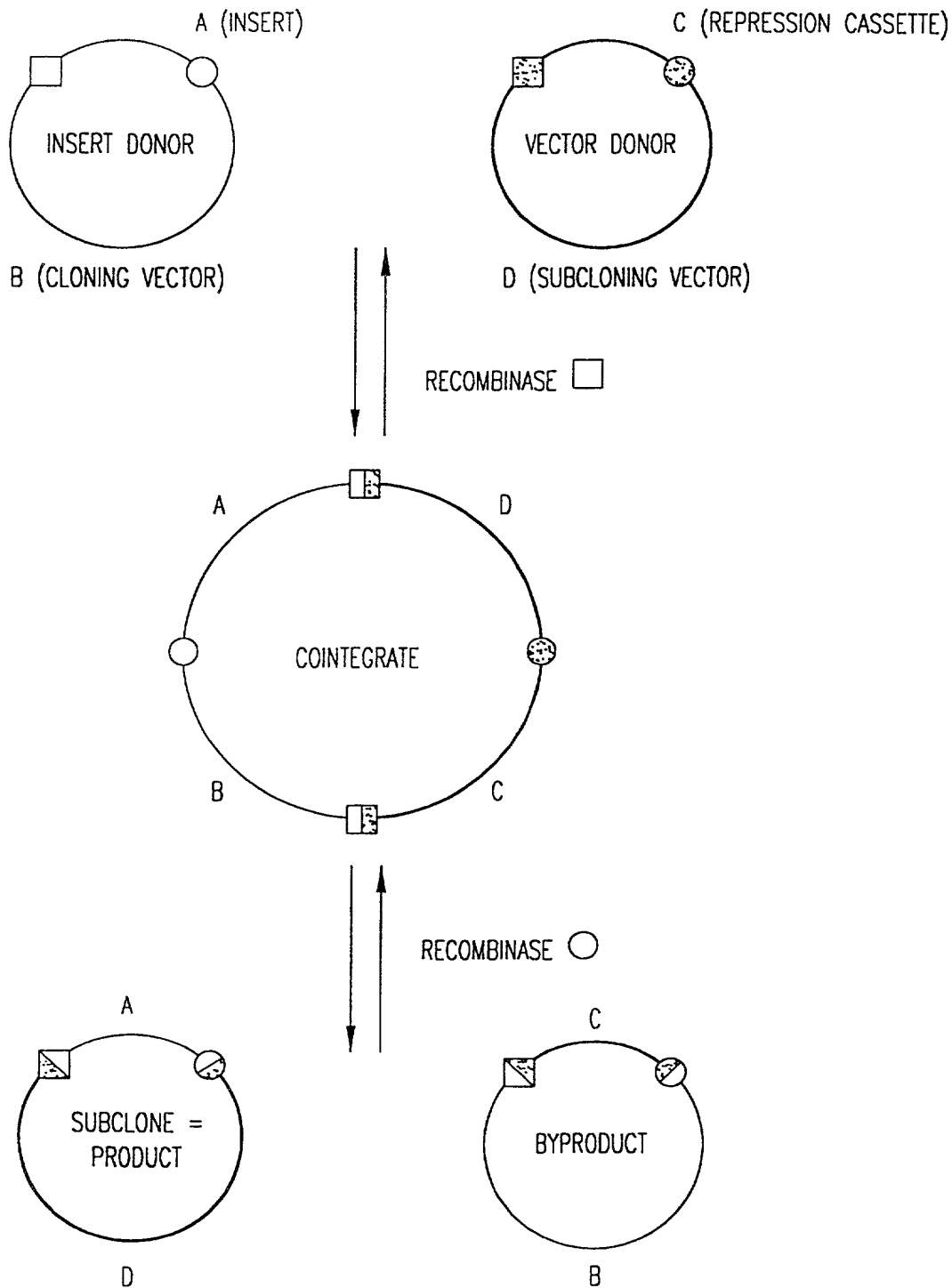


FIG.1

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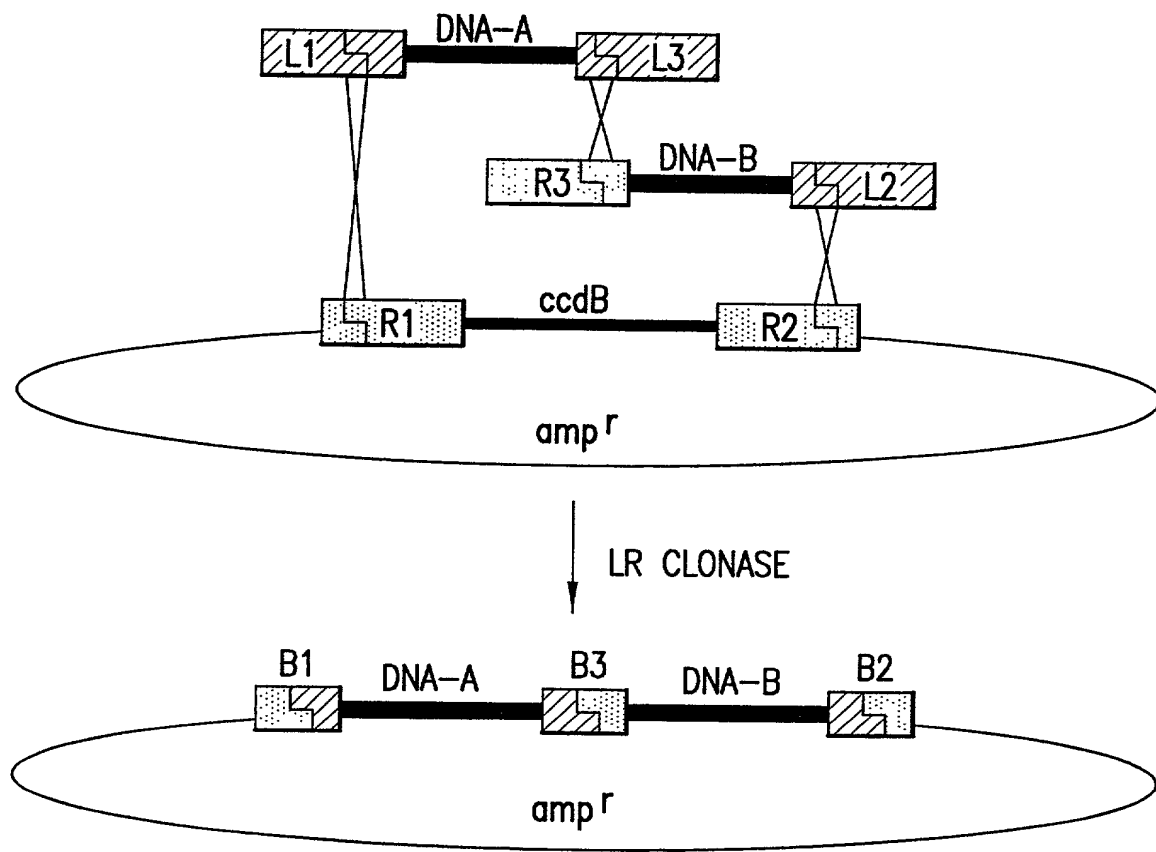


FIG.2

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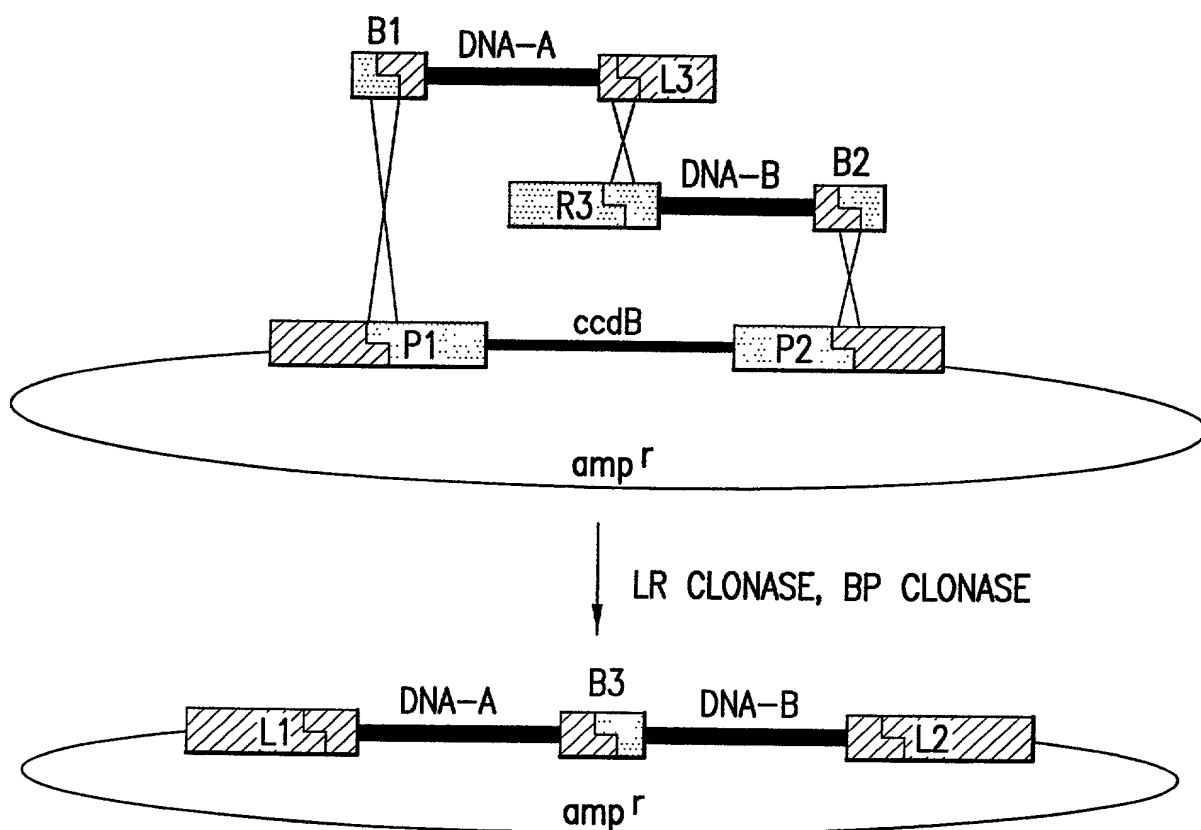


FIG.3

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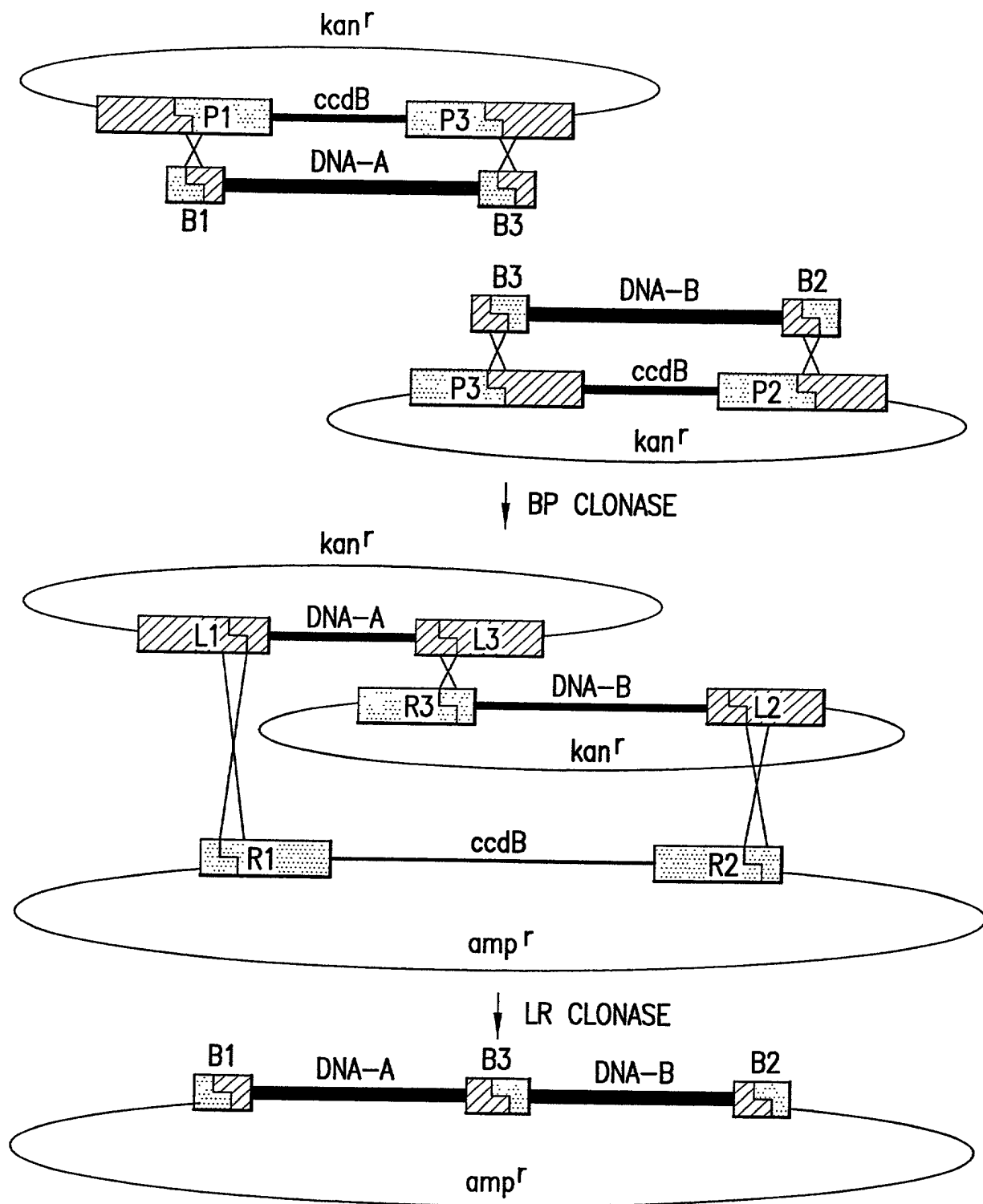


FIG.4

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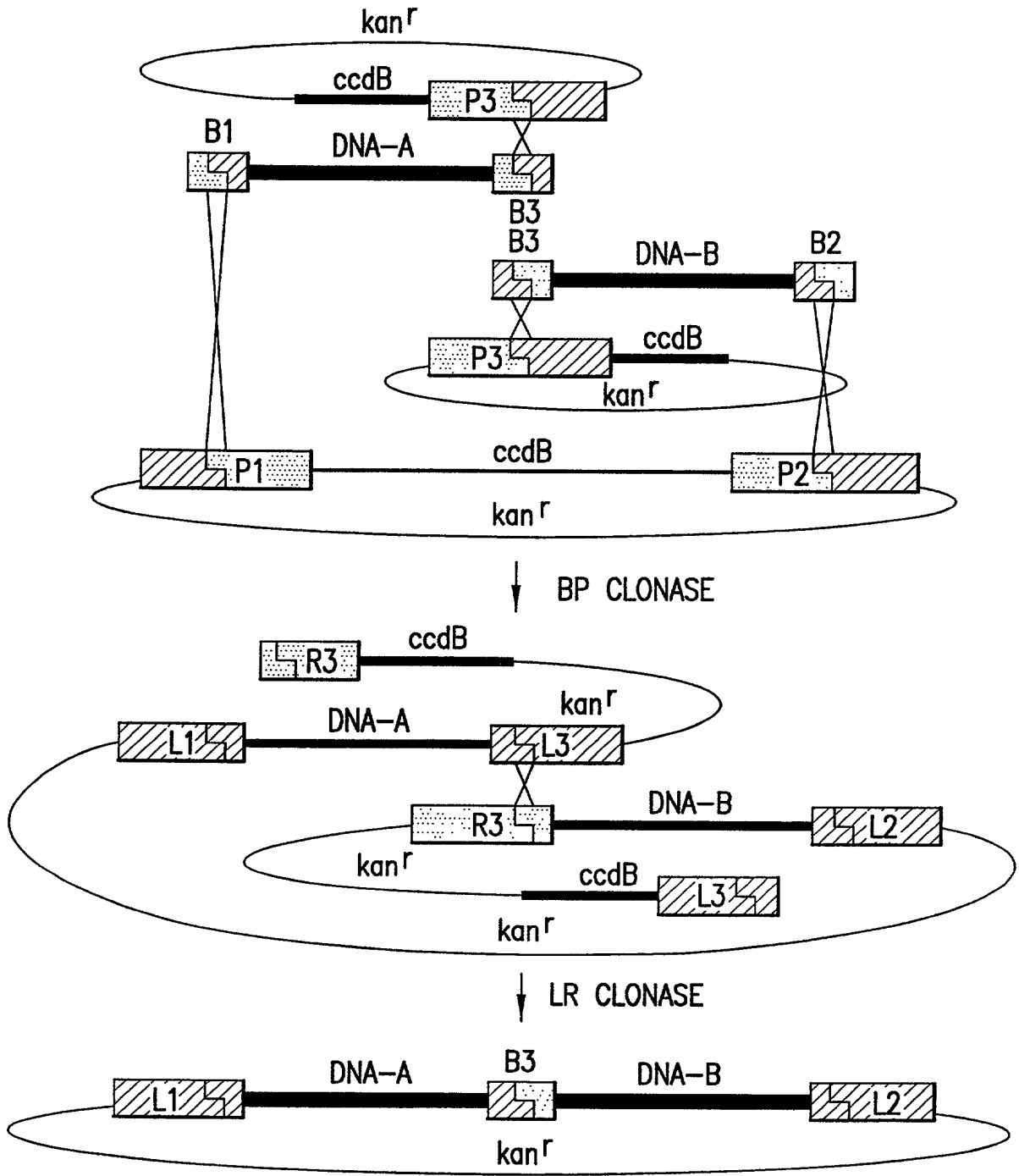


FIG.5

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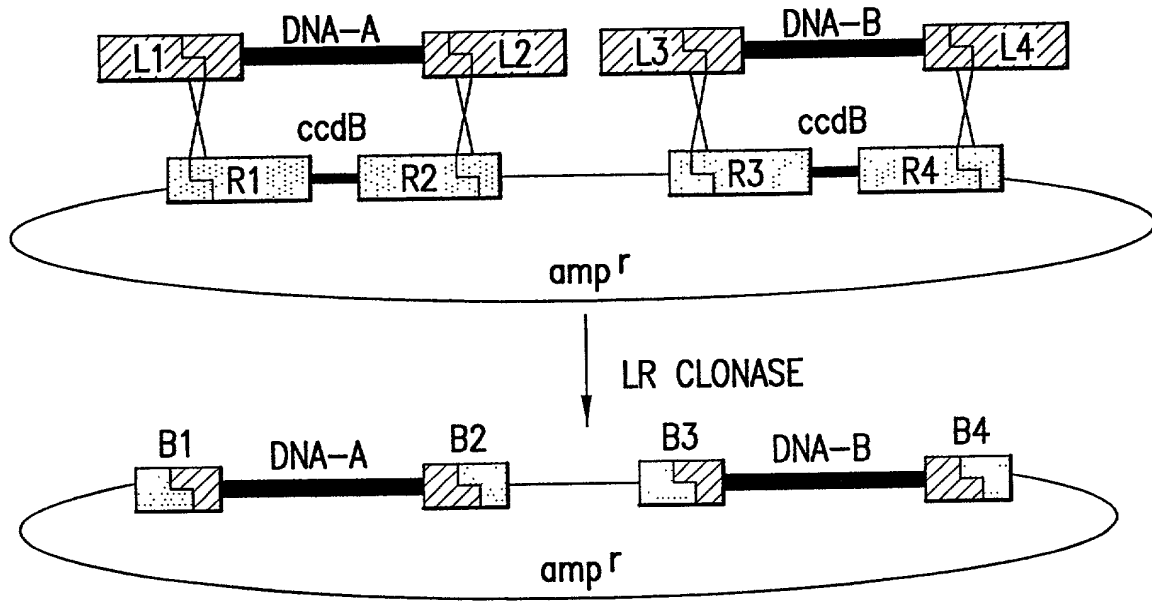


FIG.6

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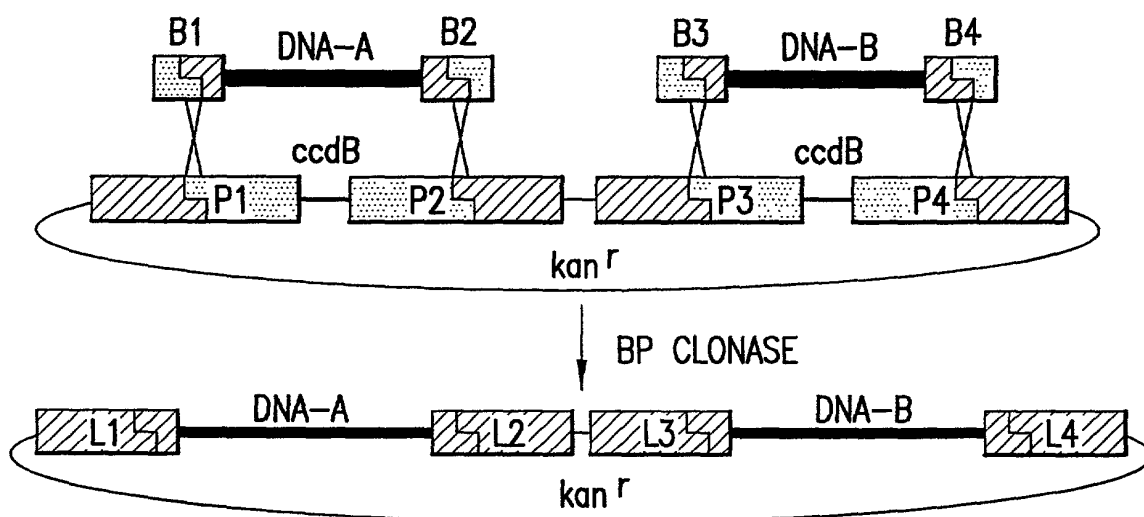


FIG.7

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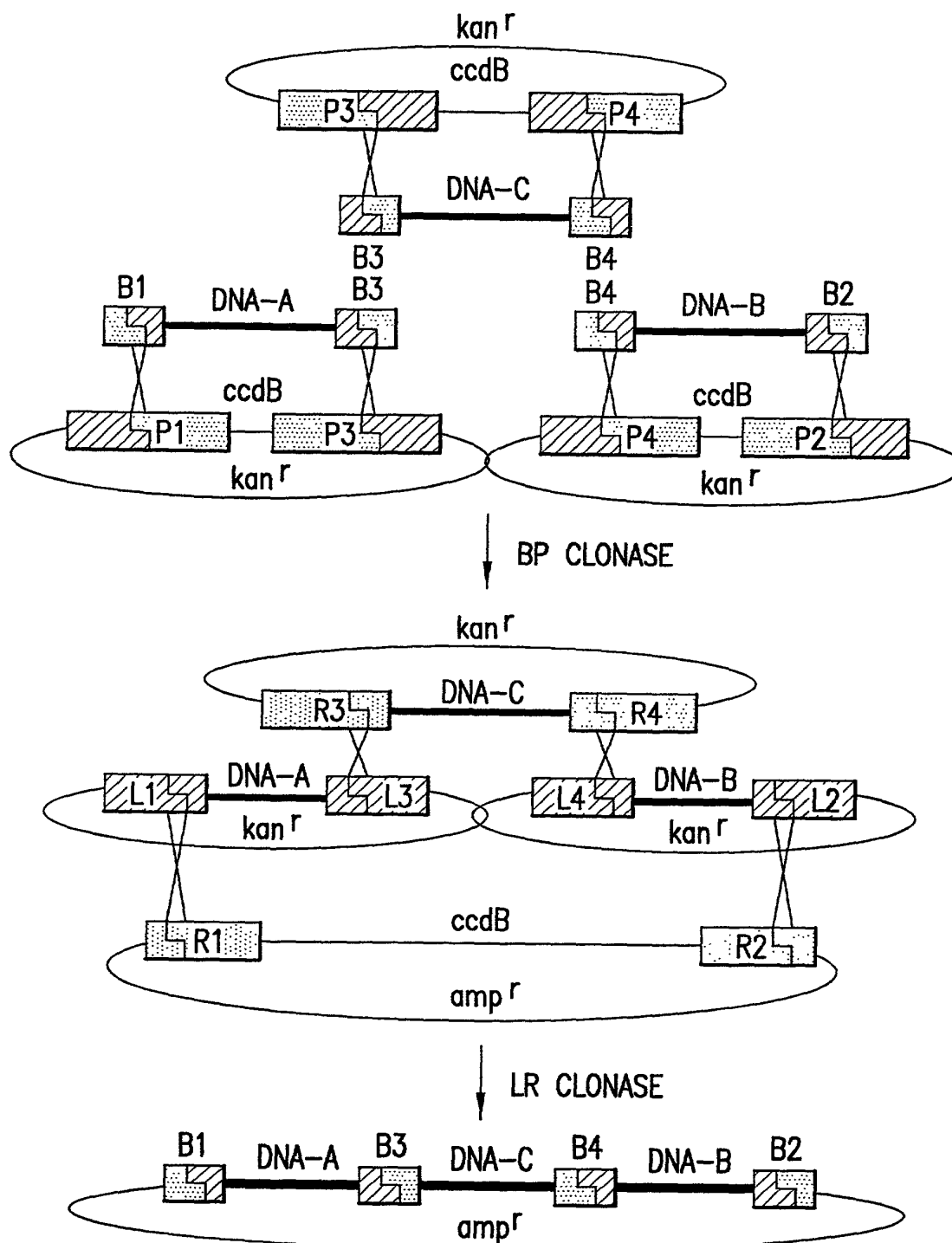


FIG.8

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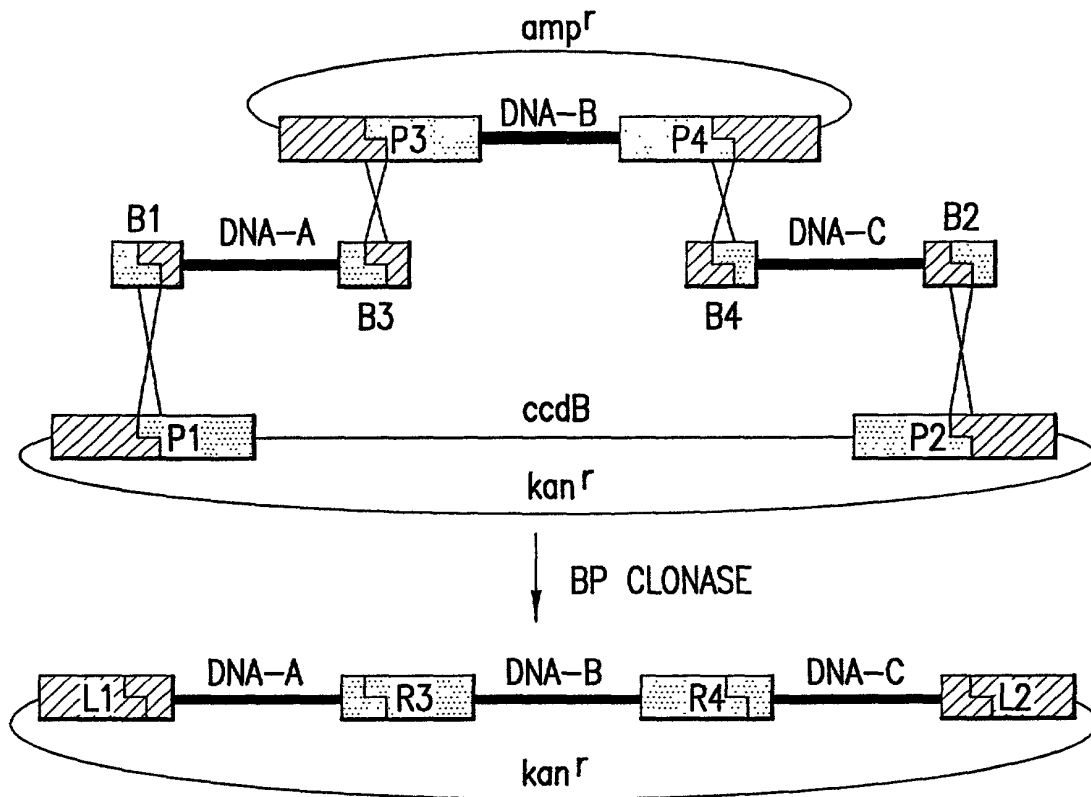


FIG.9

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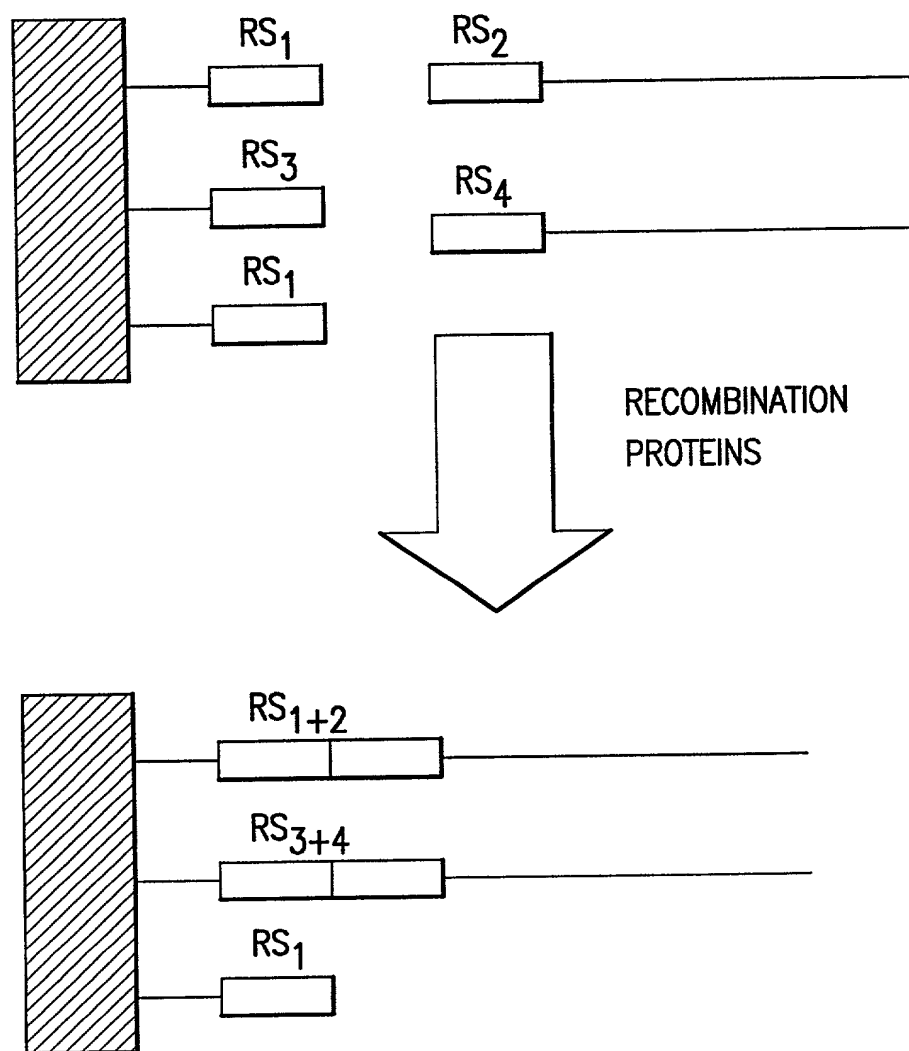


FIG.10

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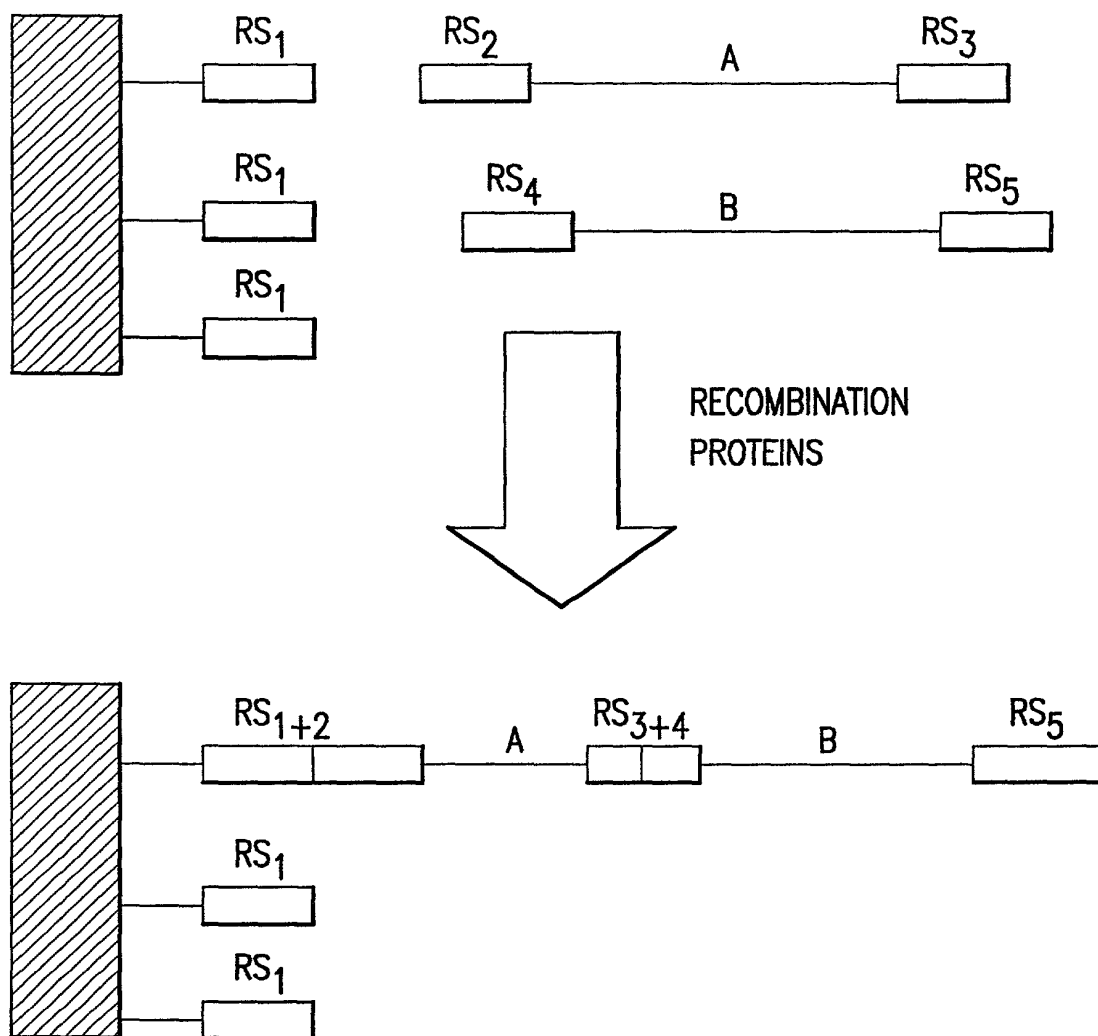


FIG.11

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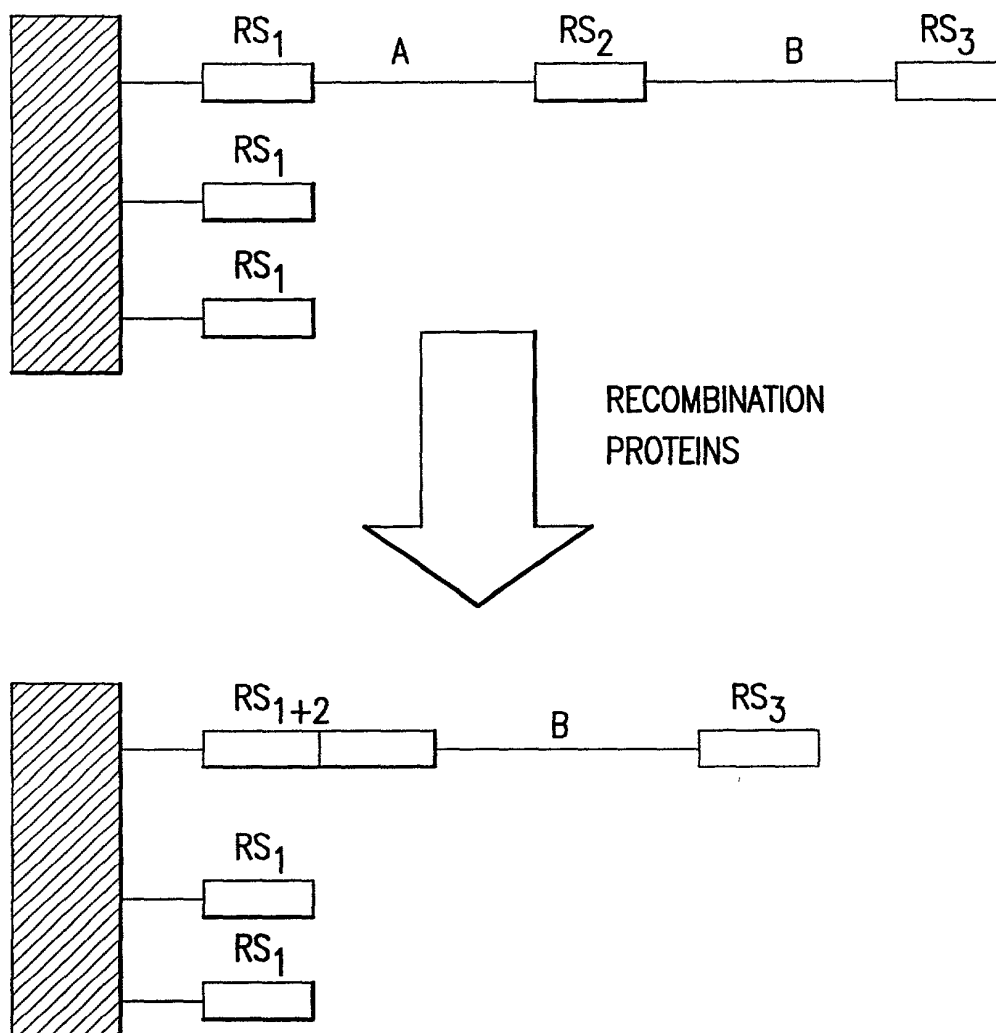


FIG.12

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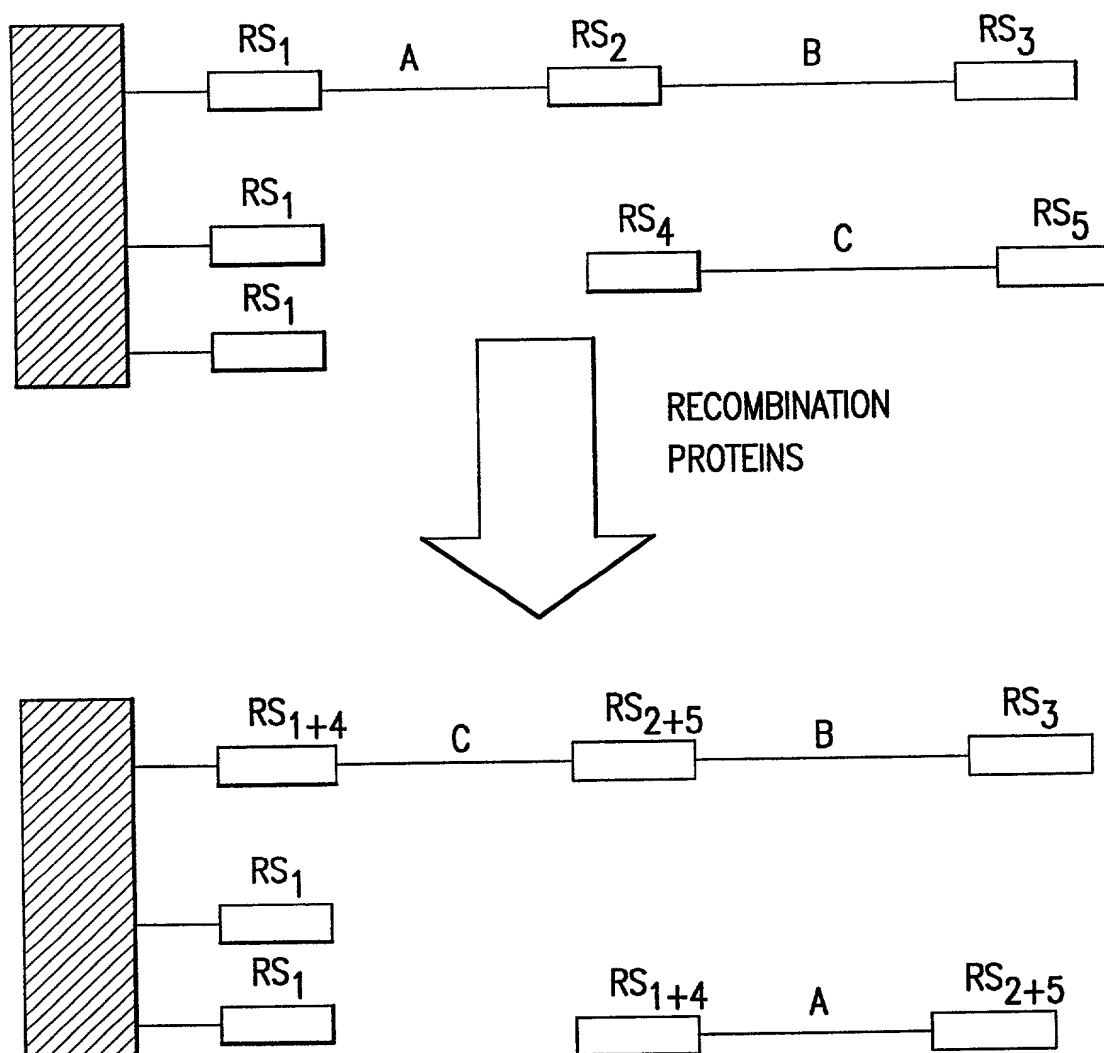


FIG.13

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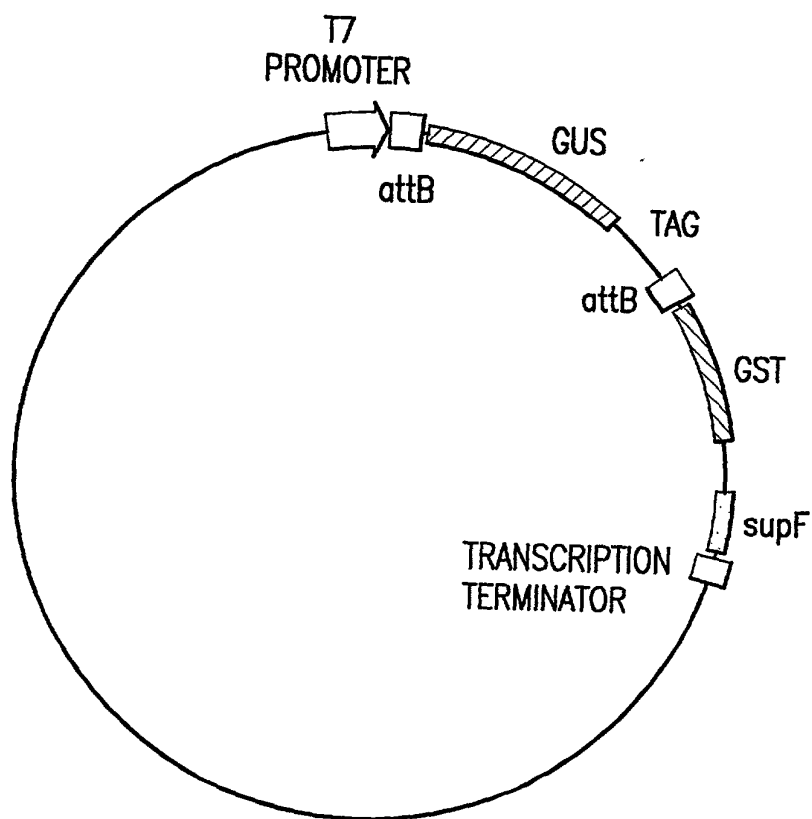


FIG.14A

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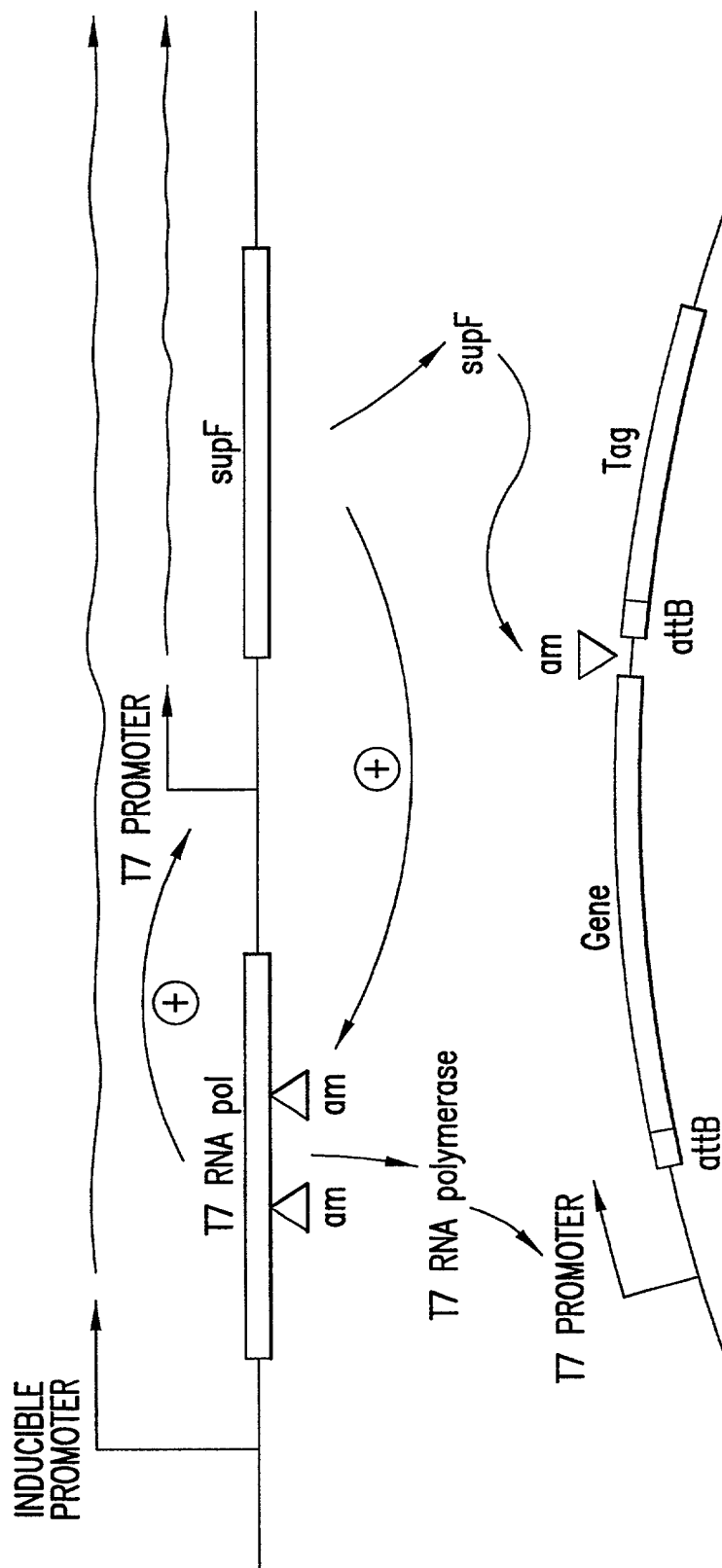


FIG. 14B

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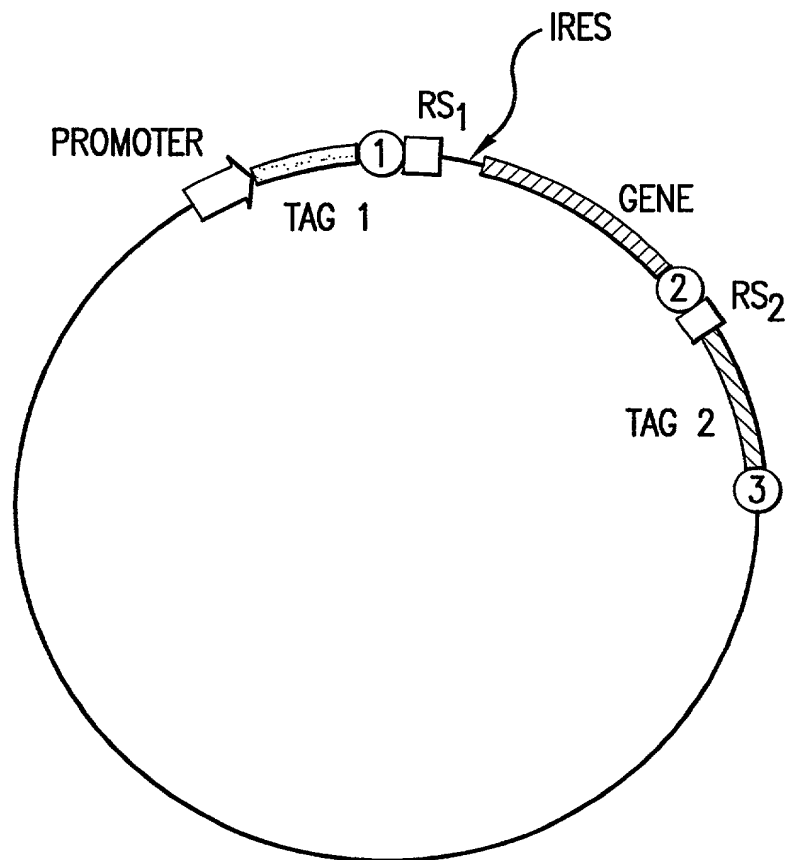


FIG.15

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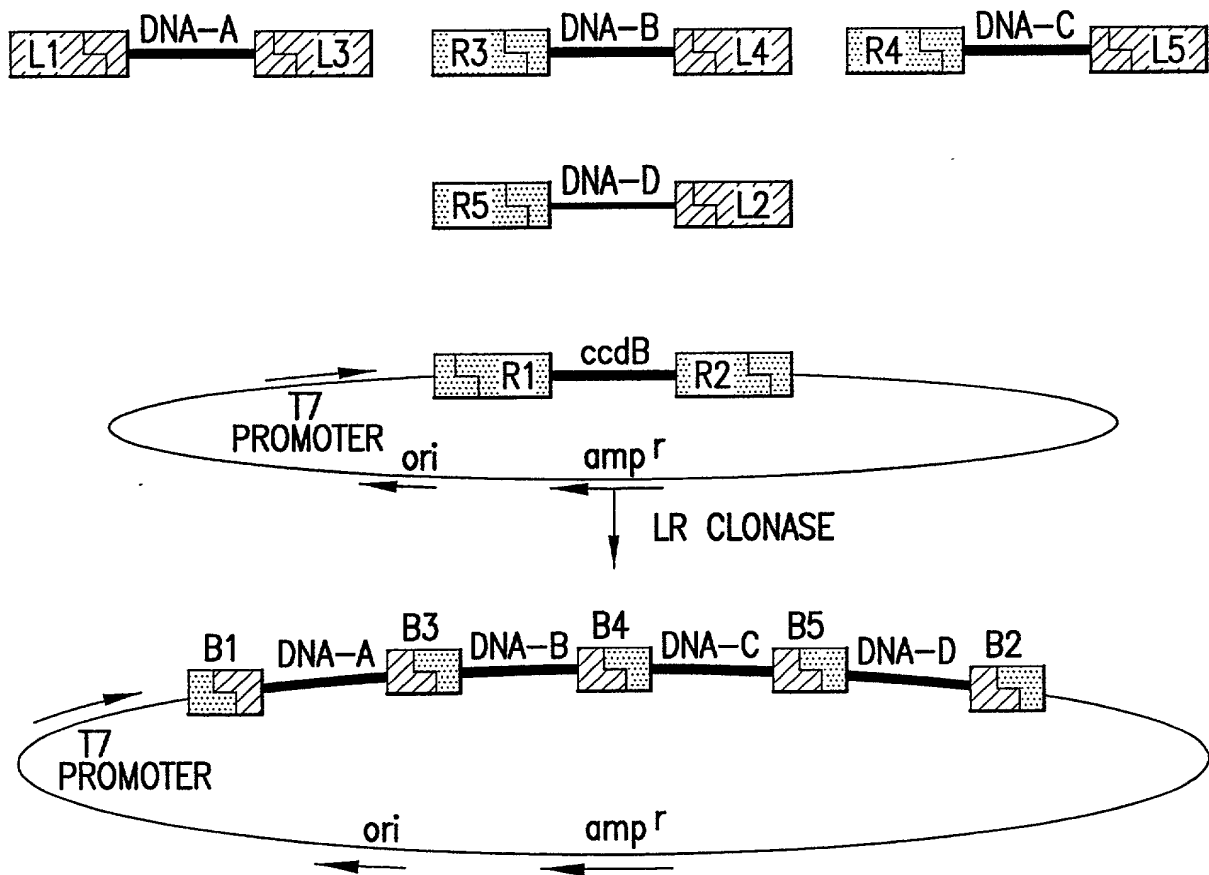


FIG.16

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CLOWING LIGHT

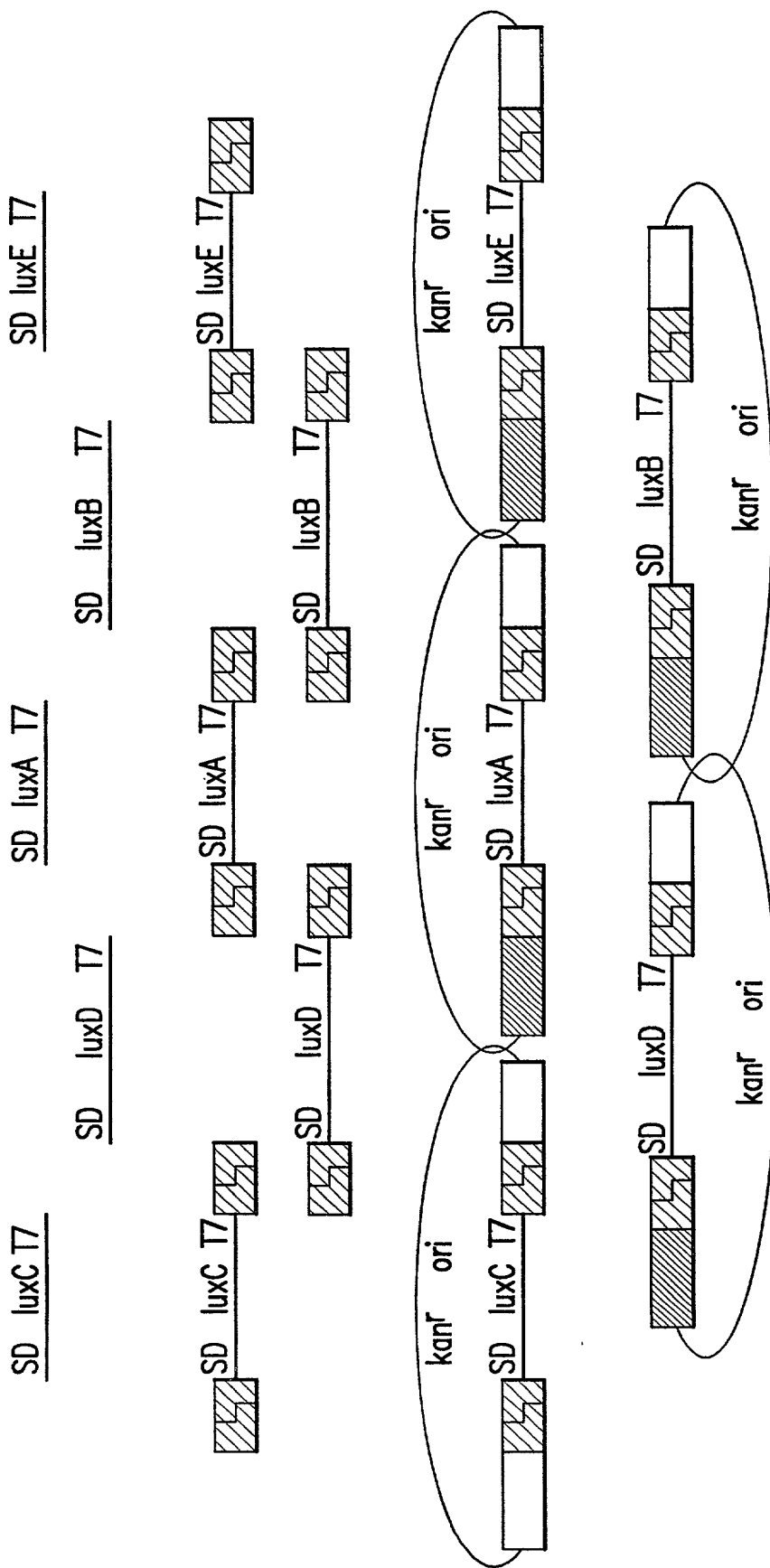


FIG. 17A

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CLONING LIGHT

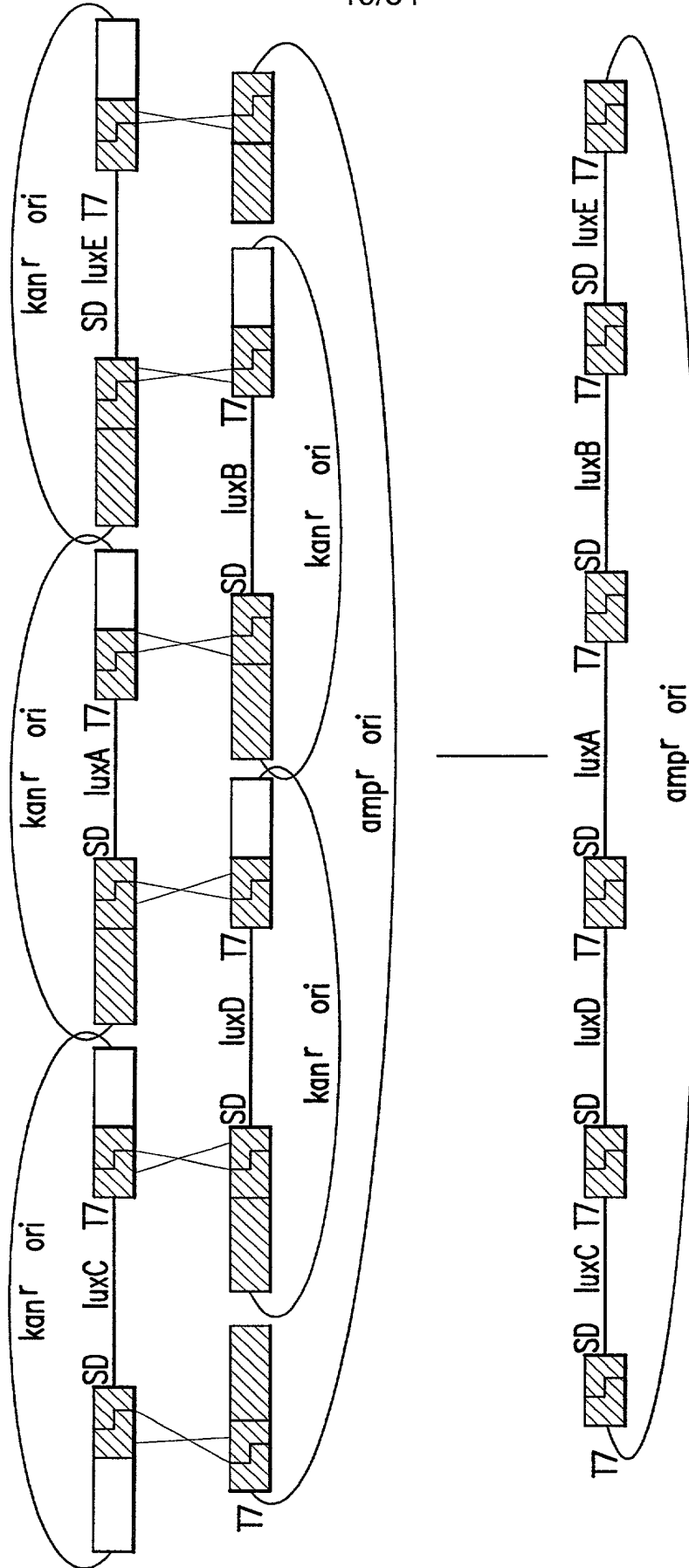


FIG. 17B

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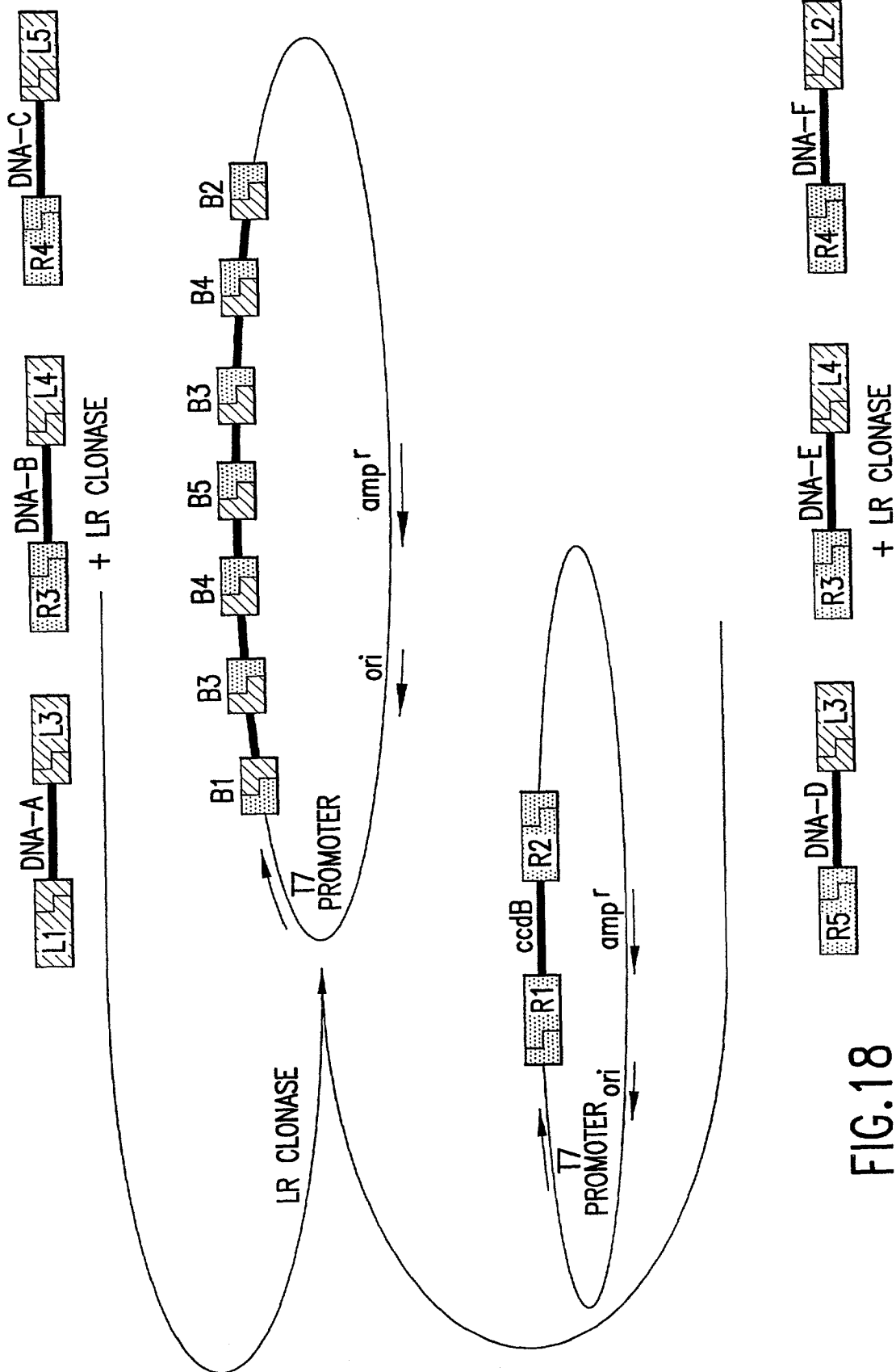


FIG.18

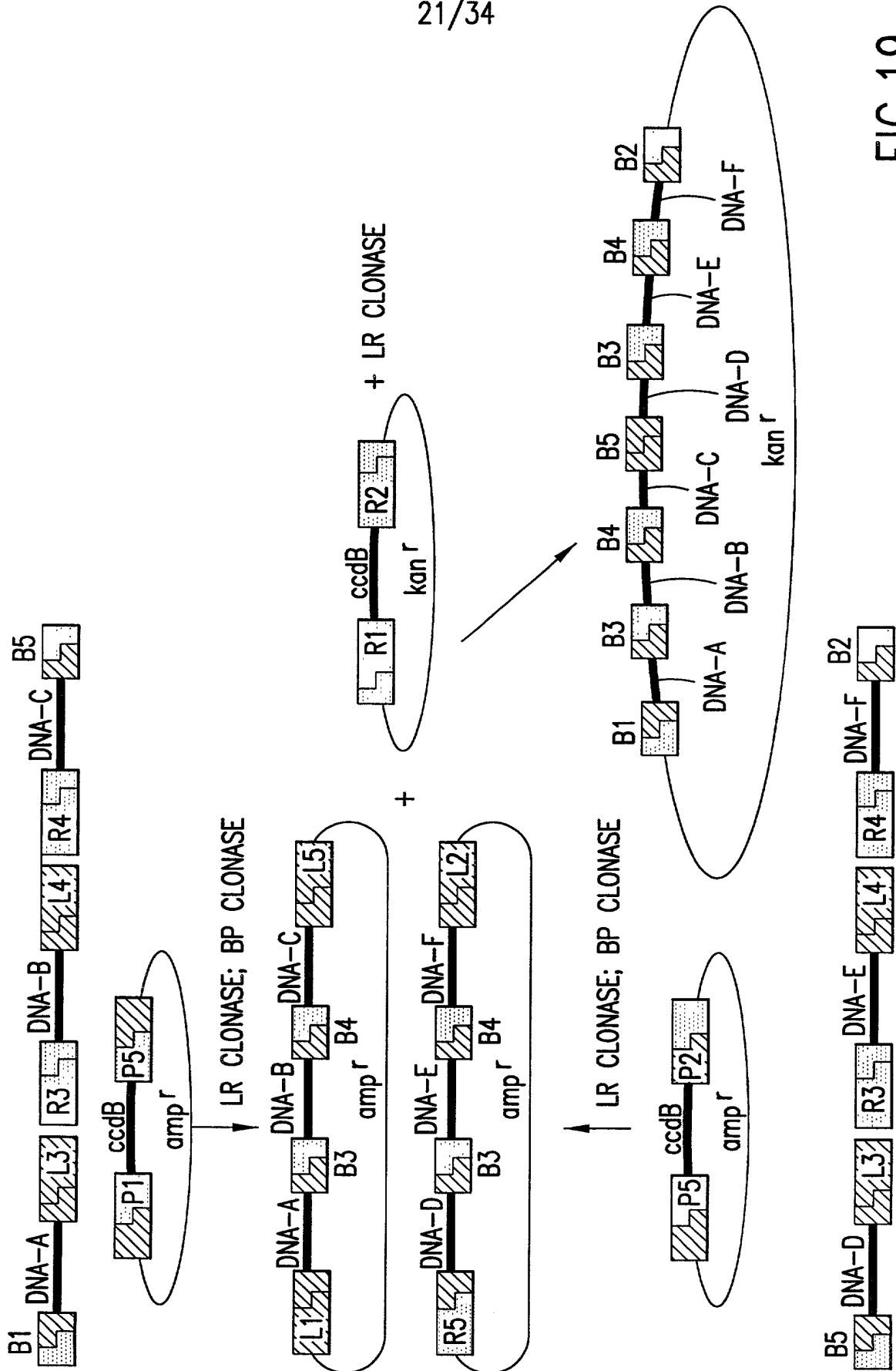


FIG.19

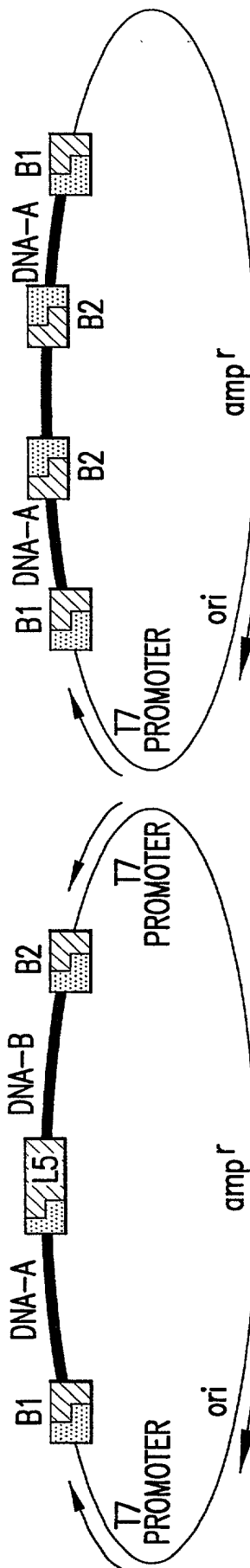


FIG. 20A

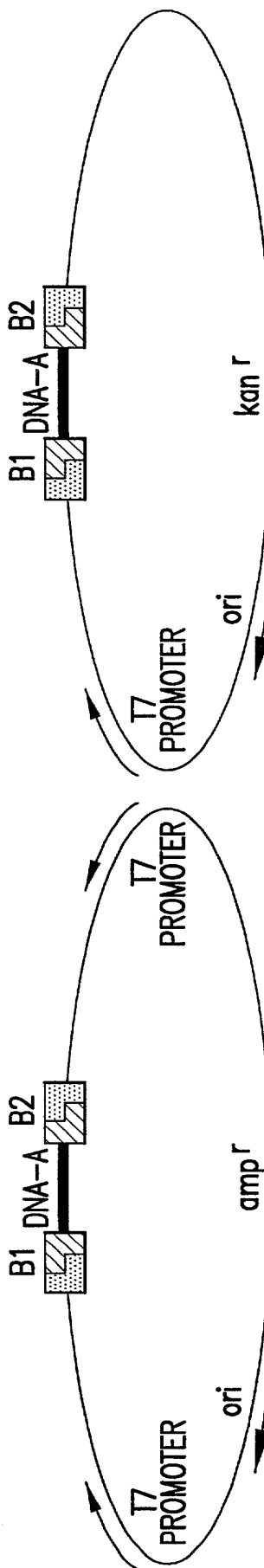


FIG. 20B

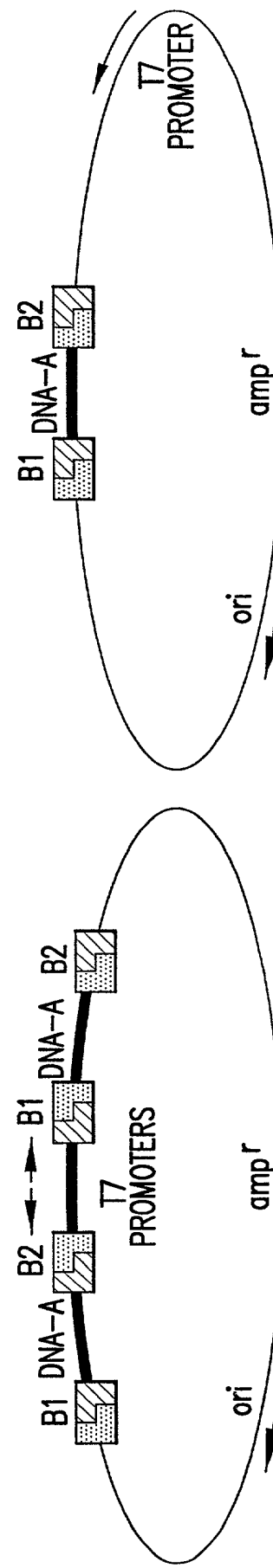


FIG. 20C

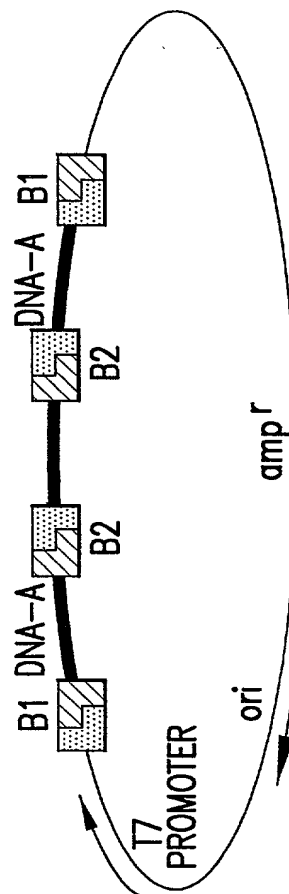


FIG. 20D

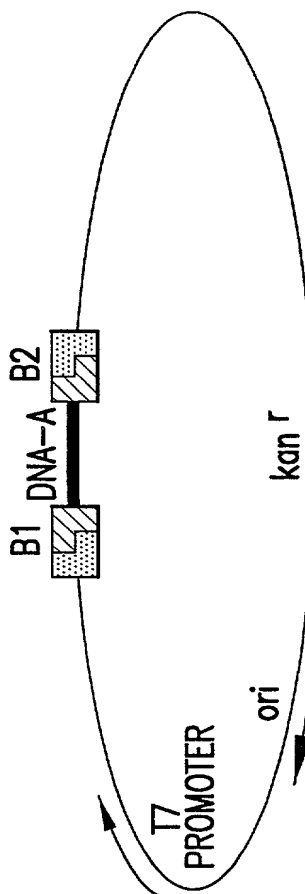


FIG. 20E

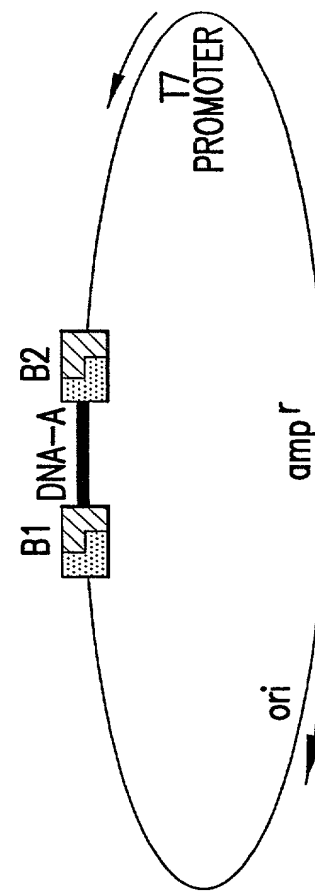


FIG. 20F

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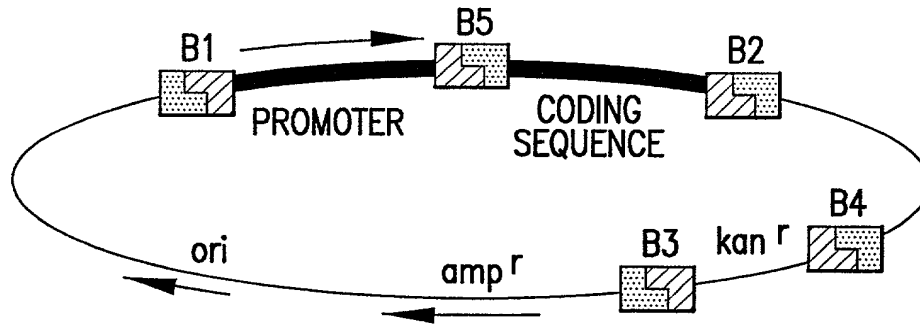


FIG.21A

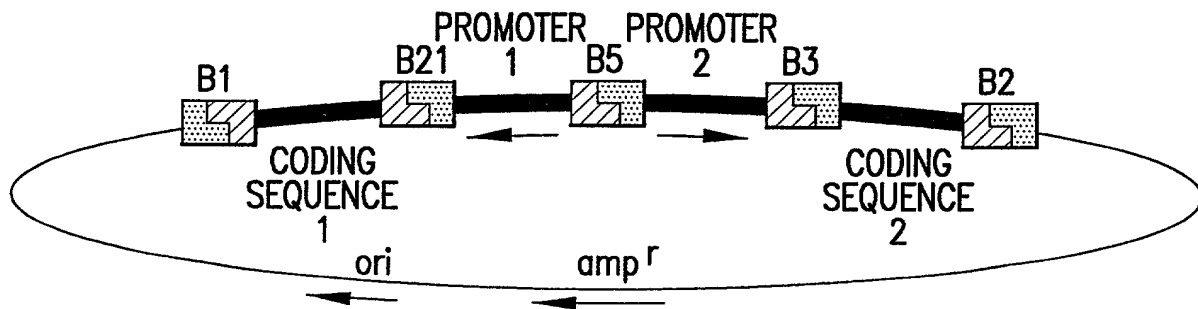


FIG.21B

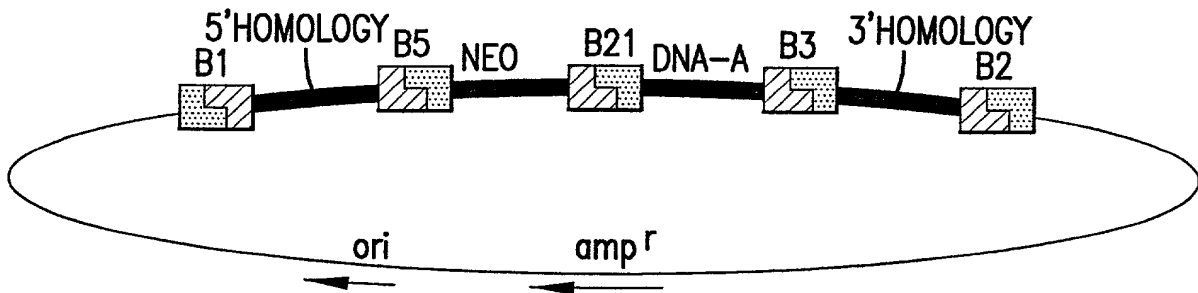


FIG.21C

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CONSTRUCTING GENE TARGETING VECTORS

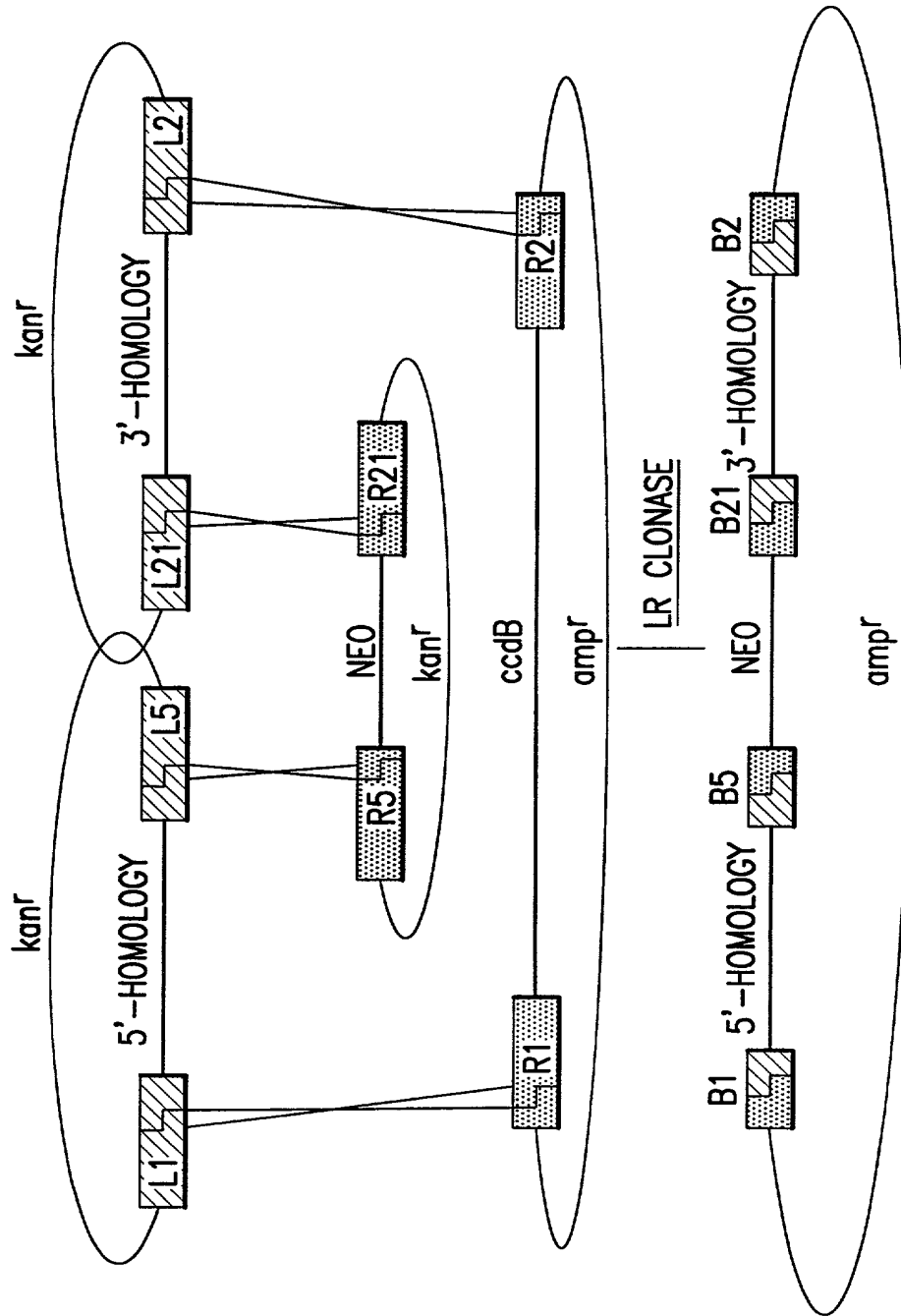


FIG. 22A

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CONSTRUCTING GENE TARGETING VECTORS

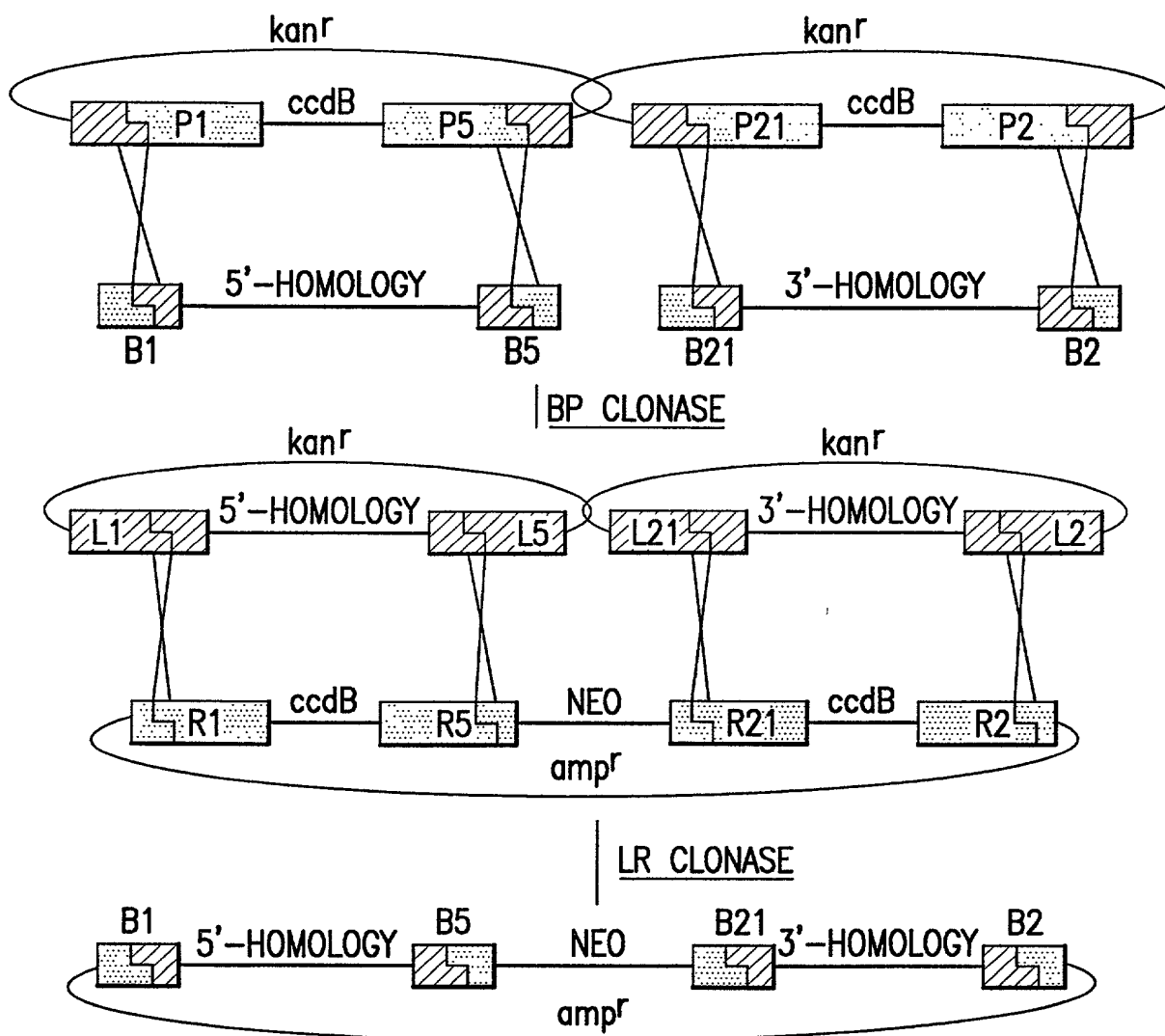


FIG. 22B

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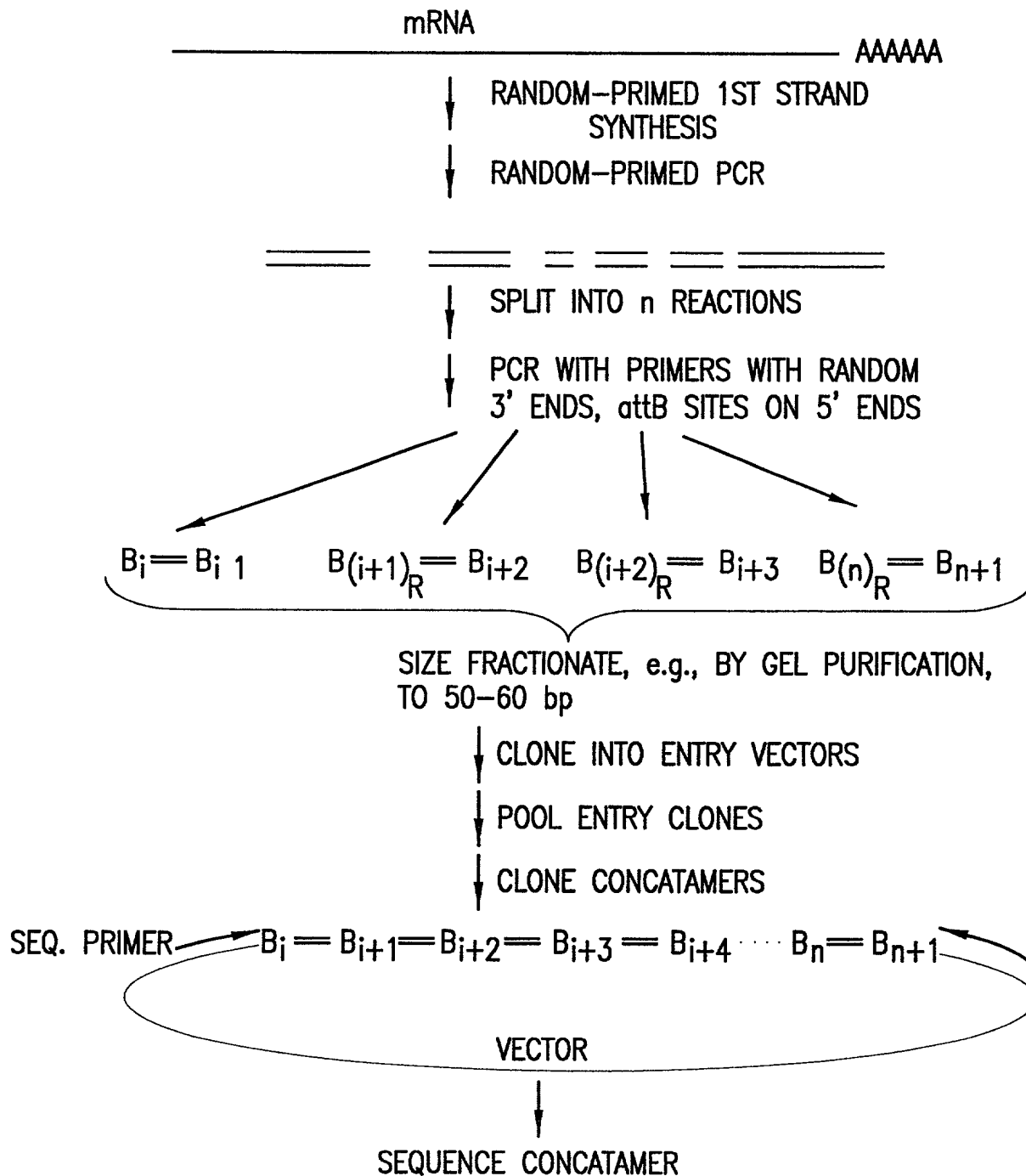


FIG. 23

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attB0 AGCCTGCTTTTTTTATACTAACTTGAGC (SEQ ID NO:1)
 TCGGACGAAAAAATATGATTGAACCTG

attP0 GTTCAGCTTTTTTTATACTAAGTTGGCA (SEQ ID NO:2)
 CAAGTCGAAAAAATATGATTCAACCGT

attL0 AGCCTGCTTTTTTTATACTAAGTTGGCA (SEQ ID NO:3)
 TCGGACGAAAAAATATGATTCAACCGT

attR0 GTTCAGCTTTTTTTATACTAACTTGAGC (SEQ ID NO:4)
 CAAGTCGAAAAAATATGATTGAACCTG

attB1 AGCCTGCTTTTTTTGTACAACTTGT (SEQ ID NO:5)
 TCGGACGAAAAAATATGTTTGAACA

attP1 GTTCAGCTTTTTTTGTACAAAGTTGGCA (SEQ ID NO:6)
 CAAGTCGAAAAAACATGTTTCAACCGT

attL1 AGCCTGCTTTTTTTGTACAAAGTTGGCA (SEQ ID NO:7)
 TCGGACGAAAAAACATGTTTCAACCGT

attR1 GTTCAGCTTTTTTTGTACAACTTGT (SEQ ID NO:8)
 CAAGTCGAAAAAACATGTTTGAACA

attB2 ACCCAGCTTTTCTTGTACAAAGTGGT (SEQ ID NO:9)
 TGGGTCGAAAGAATATGTTTCACCA

attP2 GTTCAGCTTTTCTTGTACAAAGTTGGCA (SEQ ID NO:10)
 CAAGTCGAAAGAACATGTTTCAACCGT

attL2 ACCCAGCTTTTCTTGTACAAAGTTGGCA (SEQ ID NO:11)
 TGGGTCGAAAGAACATGTTTCAACCGT

attR2 GTTCAGCTTTTCTTGTACAAAGTGGT (SEQ ID NO:12)
 CAAGTCGAAAGAACATGTTTGACCA

attB5 CAACTTTTATTATACAAAGTTGT (SEQ ID NO:13)
 GTTGAAATAATATGTTTCAACA

attP5 GTTCAACTTTTATTATACAAAGTTGGCA (SEQ ID NO:14)
 CAAGTTGAAATAATATGTTTCAACCGT

FIG.24A

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attL5 CAACTTTTATTATACAAAGTTGGCA (SEQ ID NO:15)
 GTTGAAATAATATGTTTCAACCGT

attR5 GTTCAACTTTTATTATACAAAGTTGT (SEQ ID NO:16)
 CAAGTTGAAATAATATGTTTCAACA

attB11 CAACTTTTCTATACAAAGTTGT (SEQ ID NO:17)
 GTTGAAAAGATATGTTTCAACA

attP11 GTTCAACTTTTCTATACAAAGTTGGCA (SEQ ID NO:18)
 CAAGTTGAAAAGATATGTTTCAACCGT

attL11 CAACTTTTCTATACAAAGTTGGCA (SEQ ID NO:19)
 GTTGAAAAGATATGTTTCAACCGT

attR11 GTTCAACTTTTCTATACAAAGTTGT (SEQ ID NO:20)
 CAAGTTGAAAAGATATGTTTCAACA

attB17 CAACTTTTGTATACAAAGTTGT (SEQ ID NO:21)
 GTTGAAAACATATGTTTCAACA

attP17 GTTCAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:22)
 CAAGTTGAAAACATATGTTTCAACCGT

attL17 CAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:23)
 GTTGAAAACATATGTTTCAACCGT

attR17 GTTCAACTTTTGTATACAAAGTTGT (SEQ ID NO:24)
 CAAGTTGAAAACATATGTTTCAACA

attB19 CAACTTTTTCGTACAAAGTTGT (SEQ ID NO:25)
 GTTGAAAAGCATGTTTCAACA

attP19 GTTCAACTTTTTCGTACAAAGTTGGCA (SEQ ID NO:26)
 CAAGTTGAAAAGCATGTTTCAACCGT

attL19 CAACTTTTTCGTACAAAGTTGGCA (SEQ ID NO:27)
 GTTGAAAAGCATGTTTCAACCGT

attR19 GTTCAACTTTTTCGTACAAAGTTGT (SEQ ID NO:28)
 CAAGTTGAAAAGCATGTTTCAACA

FIG.24B

FIG.24B

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attB20 CAACTTTTTTGGTACAAAGTTGT (SEQ ID NO:29)
GTTGAAAAAACCATGTTTCAACA

attP20 GTTCAACTTTTTTGGTACAAAGTTGGCA (SEQ ID NO:30)
CAAGTTGAAAAAACCATGTTTCAACCGT

attL20 CAACTTTTTTGGTACAAAGTTGGCA (SEQ ID NO:31)
GTTGAAAAAACCATGTTTCAACCGT

attR20 GTTCAACTTTTTTGGTACAAAGTTGT (SEQ ID NO:32)
CAAGTTGAAAAAACCATGTTTCAACA

attB21 CAACTTTTTTAATACAAAGTTGT (SEQ ID NO:33)
GTTGAAAAATTATGTTTCAACA

attP21 GTTCAACTTTTTTAATACAAAGTTGGCA (SEQ ID NO:34)
CAAGTTGAAAAATTATGTTTCAACCGT

attL21 CAACTTTTTTAATACAAAGTTGGCA (SEQ ID NO:35)
GTTGAAAAATTATGTTTCAACCGT

attR21 GTTCAACTTTTTTAATACAAAGTTGT (SEQ ID NO:36)
CAAGTTGAAAAATTATGTTTCAACA

FIG.24C

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VECTOR ASSEMBLY USING MODULAR VECTOR ELEMENT ENTRY CLONES

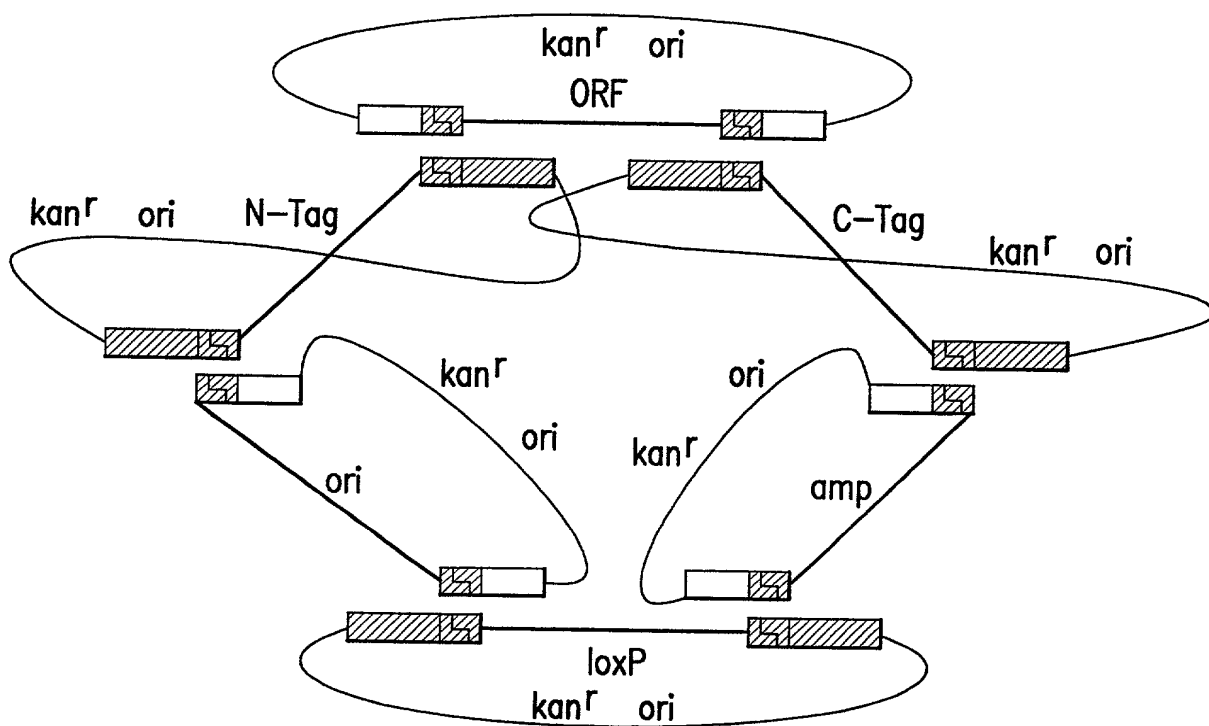


FIG. 25A

VECTOR ASSEMBLY USING MODULAR VECTOR ELEMENT ENTRY CLONES

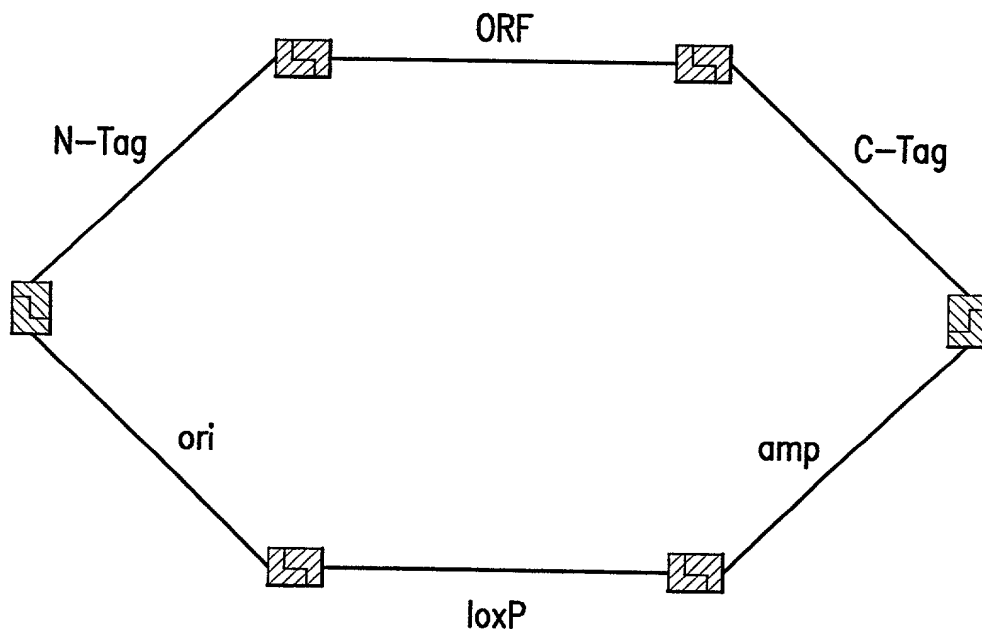


FIG. 25B

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CONSTRUCTION OF attP PLASMIDS

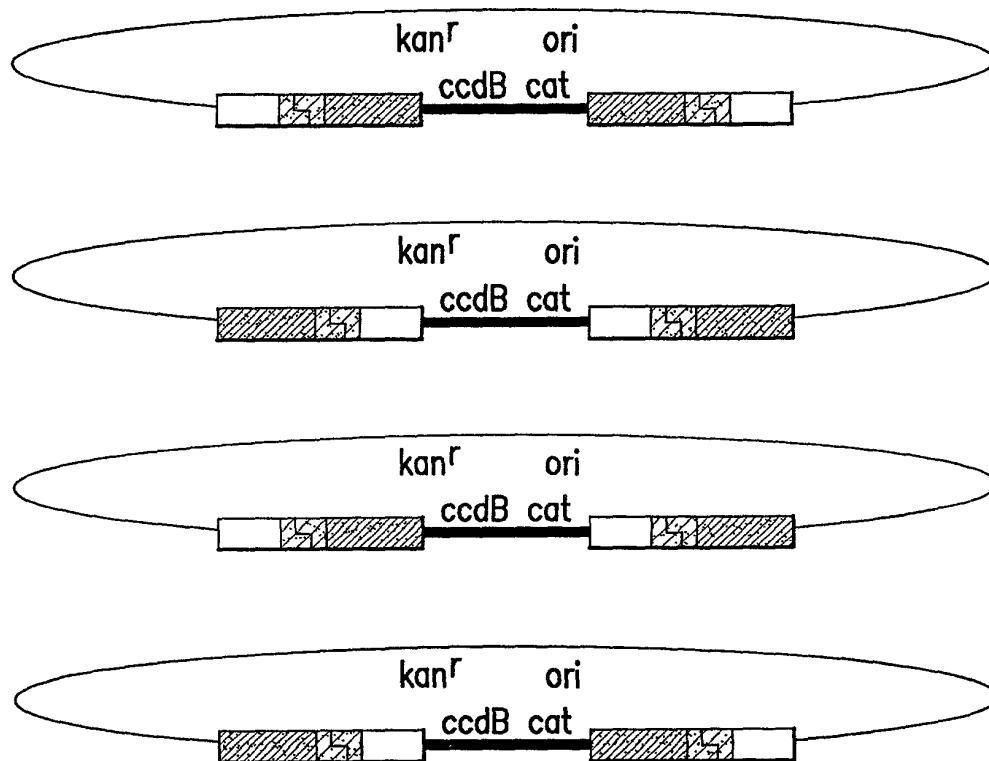


FIG.26A

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CONSTRUCTION OF attP PLASMIDS

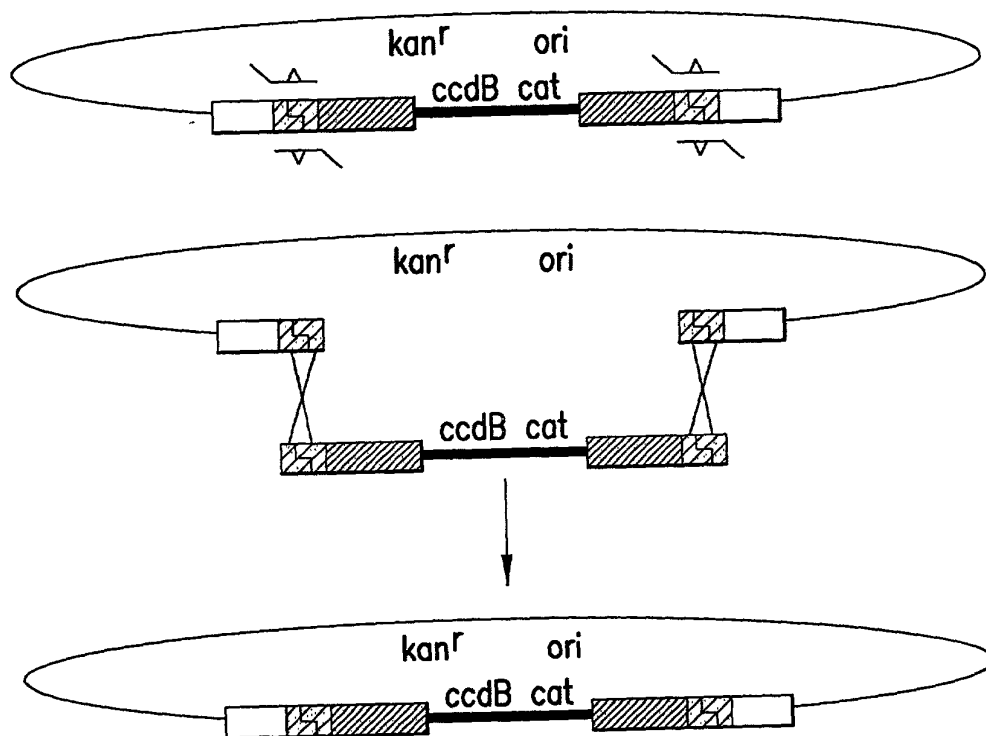


FIG.26B

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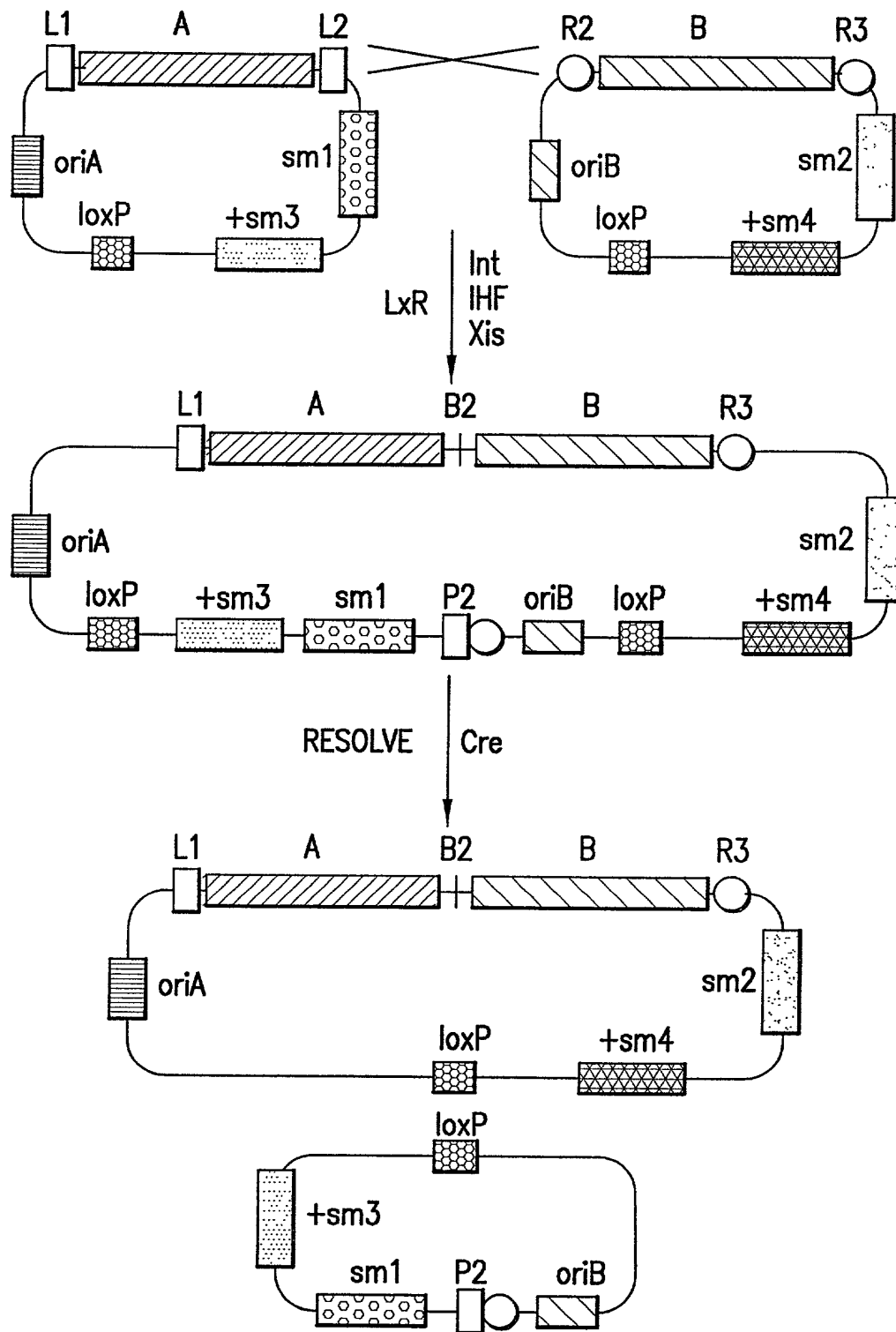


FIG.27A

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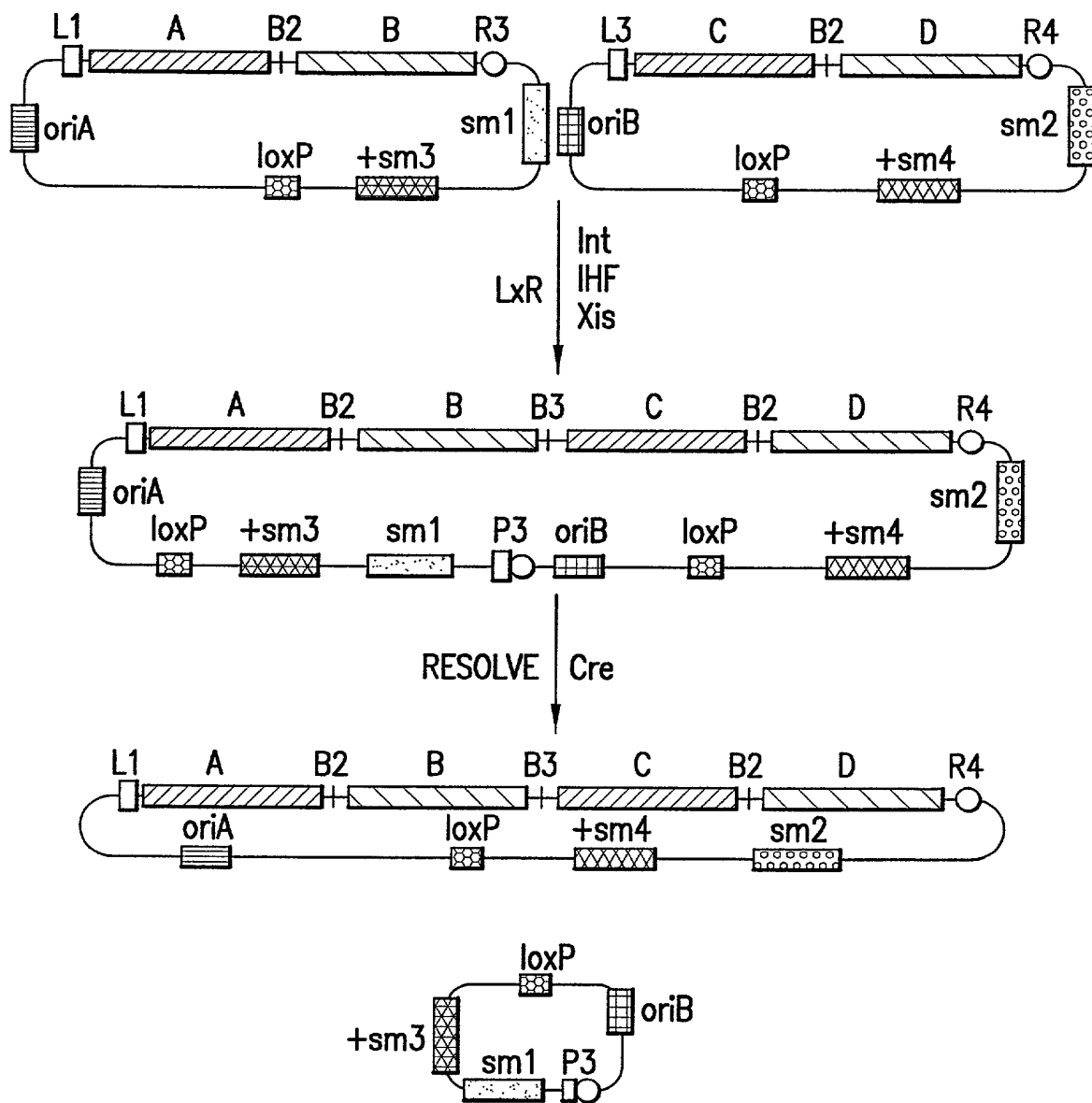


FIG.27B